

Section 22

Transportation— Air and Water

This section presents statistics on civil air transportation, both passenger and cargo, and on water transportation, including inland waterways, oceanborne commerce, the merchant marine, cargo and vessel tonnages, and shipbuilding. Comparative data on various types of transportation carriers are presented in section 21.

Principal sources of these data are the annual *FAA Statistical Handbook of Aviation* issued by the Federal Aviation Administration (FAA); the annual *Waterborne Commerce of the United States* issued by the Corps of Engineers of the Department of the Army; the monthly and annual issues of *U.S. Waterborne Exports and General Imports*, and *U.S. Airborne Exports and General Imports*, the annual *Vessel Entrances and Clearances*, and the monthly *Highlights of U.S. Export and Import Trade*, issued by the Bureau of the Census. In addition, the Bureau of the Census in its commodity transportation survey (part of the census of transportation, taken every five years, for years ending in "2" and "7") provides data on the type, weight, and value of commodities shipped by manufacturing establishments in the United States, by means of transportation, origin, and destination.

Air transportation data are also presented annually by the Air Transport Association of America, Washington, DC in *Air Transport Facts and Figures*. Additional sources of data on water transportation include *A Statistical Analysis of the World's Merchant Fleets*, issued periodically by the U.S. Maritime Administration; *The Bulletin*, issued monthly by the American Bureau of Shipping, New York; and the *Annual Summary of Merchant Ships Completed in the World* and the *Register Book*, published by Lloyd's Register of Shipping, London, England.

Civil aviation.—Federal promotion and regulation of civil aviation have been carried out by the FAA and the Civil Aeronautics Board (CAB). The CAB promoted and regulated the civil air transportation industry within the United States and between the United States and foreign countries. The Board granted licenses to provide air transportation service, approved or disapproved proposed rates and fares, and approved or disapproved proposed agreements and corporate relationships involving air carriers. In December 1984, the CAB ceased to exist as an agency. Some of its functions were transferred to the Department of Transportation (DOT), as outlined below. The responsibility for investigation of aviation accidents resides with the National Transportation Safety Board.

The Office of the Secretary, DOT aviation activities include: negotiation of international air transportation rights, selection of U.S. air carriers to serve capacity controlled international markets, oversight of international rates and fares, maintenance of essential air service to small communities, and consumer affairs. DOT's Research and Special Programs Administration (RSPA) handles aviation information functions formerly assigned to CAB.

The principal activities of the FAA include: The promotion of air safety; controlling the use of navigable airspace; prescribing regulations dealing with the competency of airmen, airworthiness of aircraft, and air traffic control; operation of air route traffic control centers, airport traffic control towers, and flight service stations; the design, construction, maintenance, and inspection of navigation, traffic control, and communications equipment; and the development of general aviation.

The CAB published monthly and quarterly financial and traffic statistical data for the certificated route air carriers. RSPA continues these publications, including both certificated and non-certificated (commuter) air carriers. The FAA publishes annually data on the use of airway facilities; data related to the location of airmen, aircraft, and airports; the volume of activity in the field of non-air carrier (general aviation) flying; and aircraft production and registration.

General aviation comprises all civil flying (including such commercial operations as small demand air taxis, agriculture application, powerline patrol, etc.) but excludes certificated route air carriers, supplemental operators, large-aircraft commercial operators and commuter airlines.

Air carriers and service.—The CAB previously issued "certificates of public convenience and necessity" under Section 401 of the Federal Aviation Act of 1958 for scheduled and non-scheduled (charter) passenger services and cargo services. It also issued certificates under Section 418 of the Act to cargo air carriers for domestic all-cargo service only. The DOT Office of the Secretary now

issues the certificates under a "fit, willing and able" test of air carrier operations. Carriers operating only 60 seat or less aircraft are given exemption authority to carry passengers, cargo and mail in scheduled and non-scheduled service under Part 298 of the DOT (formerly CAB) regulations. Exemption authority carriers who offer scheduled passenger service to an essential air service point must meet the "fit, willing and able" test.

Vessel shipments, entrances, and clearances.—Shipments by dry cargo vessels comprise shipments on all types of watercraft, except tanker vessels; shipments by tanker vessels comprise all types of cargo, liquid and dry, carried by tanker vessels.

A vessel is reported as entered only at the first port which it enters in the United States, whether or not cargo is unloaded at that port. A vessel is reported as cleared only at the last port at which clearance is made to a foreign port, whether or not it takes on cargo. Army and Navy vessels entering or clearing without commercial cargo are not included in the figures.

Units of measurement.—Cargo (or freight) tonnage and shipping weight both represent the gross weight of the cargo including the weight of containers, wrappings, crates, etc. However, shipping weight excludes lift and cargo vans and similar substantial outer containers. Other tonnage figures generally refer to stowing capacity of vessels, 100 cubic feet being called 1 ton. Gross tonnage comprises the space within the frames and the ceiling of the hull, together with those closed-in spaces above deck available for cargo, stores, passengers, or crew, with certain minor exceptions. Net or registered tonnage is the gross tonnage less the spaces occupied by the propelling machinery, fuel, crew quarters, master's cabin, and navigation spaces. Substantially, it represents space available for cargo and passengers. The net tonnage capacity of a ship may bear little relation to weight of cargo. Deadweight tonnage is the weight in long tons required to depress a vessel from light water line (that is, with only the machinery and equipment on board) to load line. It is, therefore, the weight of the cargo, fuel, etc., which a vessel is designed to carry with safety.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

No. 1043. CERTIFIED ROUTE PASSENGER/CARGO AIR CARRIERS—NUMBER, OPERATING REVENUES, AND EXPENSES: 1970 TO 1987

(In millions of dollars, except number of carriers. 1970-1979, includes scheduled and charter operations. Beginning 1980, includes all cargo carriers. Minus sign (—) indicates loss. See also headnote, table 1044, and *Historical Statistics, Colonial Times to 1970*, series Q 591-603)

ITEM	1970	1975	1979	1980	1982 ¹	1983 ¹	1984 ¹	1985 ¹	1986 ¹	1987, ¹ prel.
Number of air carriers	39	33	49	63	98	96	95	106	93	93
DOMESTIC										
Operating revenue	7,131	11,911	21,337	26,404	28,728	31,014	35,394	37,629	41,000	45,339
Passenger	6,359	10,290	18,990	23,317	25,440	27,346	31,437	33,343	39,814	37,309
Mail (including subsidy)	205	247	418	530	572	537	560	740	883	705
Express and freight	472	702	1,184	1,582	1,505	1,582	1,690	1,581	4,383	4,904
Other	94	672	810	974	1,211	1,549	1,707	1,965	2,140	2,421
Operating expenses	7,128	11,781	21,213	26,409	29,478	31,186	33,812	36,611	39,934	43,605
Flying operations	2,088	3,868	7,867	11,029	11,529	11,370	12,161	12,884	11,368	12,383
Maintenance	1,127	1,595	2,421	2,758	2,709	2,878	3,176	3,604	4,475	4,877
General services and administration	3,157	5,050	9,120	10,545	12,825	14,274	15,625	17,324	20,690	22,626
Depreciation and amortization	745	883	1,352	1,560	1,876	2,107	2,223	2,318	2,652	2,842
Transport related	(NA)	383	453	517	537	554	627	681	748	876
Net operating income	3	129	123	—6	—750	—171	1,582	1,018	1,068	1,734
INTERNATIONAL										
Operating revenue	1,913	3,063	5,191	6,543	6,435	7,163	7,975	8,302	8,821	10,790
Passenger	1,553	2,435	4,226	4,984	4,959	5,361	6,075	6,451	6,551	8,287
Mail (including subsidy)	110	87	107	175	177	152	158	160	154	180
Express and freight	208	381	534	1,011	899	913	1,071	1,131	1,480	1,779
Other	41	150	325	372	309	737	671	560	437	545
Operating expenses	1,894	3,059	5,105	6,766	6,452	6,893	7,485	7,984	8,458	10,121
Flying operations	515	1,050	1,795	2,775	2,596	2,490	2,829	2,738	2,402	2,795
Maintenance	241	383	521	616	512	548	677	768	901	1,081
General services and administration	950	1,345	2,289	2,811	2,795	3,056	3,436	3,731	4,444	5,460
Depreciation and amortization	188	212	327	385	398	368	446	482	518	529
Transport related	(NA)	88	173	178	152	211	297	285	194	184
Net operating income	19	4	86	—223	—17	470	490	319	183	669

NA Not available. ¹ Excludes carriers that report system total only (operating revenues of \$902 million in 1982, \$415 million in 1983, \$692 million in 1984, \$2,649 million in 1985, \$426 million in 1986, and \$341 million (preliminary) in 1987; operating expenditures of \$874 million, \$352 million, \$650 million, \$2,613 million, \$443 million, and \$335 million (preliminary) in 1982, 1983, 1984, 1985, 1986, and 1987, respectively).

Source: U.S. Federal Aviation Administration and Research and Special Programs Administration, *Air Carrier Financial Statistics*, quarterly.

Certificated Route Air Carriers

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No. 1044. CERTIFICATED ROUTE AIR CARRIERS—SUMMARY: 1970 TO 1987

[As of Dec. 31 or for calendar years. See text, section 22, Operations between conterminous U.S., Puerto Rico, and outlying areas included with International. See also *Historical Statistics, Colonial Times to 1970*, series Q 577-590 and Q 624-633.]

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987
Domestic operators ¹	Number	35	33	63	96	95	106	93	93
International operators ¹	Number	6	2	32	39	35	37	40	46
Employment, total ²	1,000	297	290	371	329	345	355	422	457
Plots, copilots, and other flight personnel	1,000	33	32	39	35	37	40	46	51
Flight attendants	1,000	34	39	57	56	60	63	68	77
Mechanics	1,000	48	45	45	40	43	43	48	51
Aircraft and traffic servicing personnel	1,000	84	83	122	95	101	101	180	195
Other	1,000	98	91	108	103	104	108	80	84
Fixed-wing aircraft in operation ³	Number	2,421	2,280	2,505	2,618	2,692	2,880	3,799	4,231
Turbojet	Number	2,041	2,022	2,336	2,492	2,572	2,740	3,282	3,573
Two-engine	Number	519	500	652	974	1,065	1,235	1,494	1,722
Three-engine	Number	631	981	1,311	1,296	1,277	1,277	1,486	1,469
Four-engine	Number	891	581	373	222	230	228	322	382
Turboprop	Number	316	193	163	118	110	110	416	546
Piston	Number	64	45	6	8	10	10	101	112
Average available seats: ⁴ 6									
Domestic	Number	110.4	130.4	143.1	154.1	153.7	152.5	153.4	152.9
International	Number	154.9	224.8	274.5	283.6	289.9	296.6	292.8	284.7
Average/hr. speed: ⁵									
Domestic	Mi. per hr.	403	403	405	415	414	409	409	413
International	Mi. per hr.	482	482	494	491	494	497	483	494
Jet fuel consumed ⁶	Mil. gal.	10,083	9,507	11,311	10,526	11,470	12,603	13,682	14,480
Domestic	Mil. gal.	7,842	7,558	9,218	8,556	9,417	10,115	11,137	11,587
International	Mil. gal.	2,241	1,949	2,093	1,970	2,053	2,488	2,545	2,894
Revenue-miles flown ⁵	Millions	2,426	2,241	2,816	2,809	3,133	3,320	3,725	3,984
Domestic	Millions	2,027	1,909	2,471	2,483	2,786	2,950	3,323	3,525
International	Millions	399	332	345	326	347	370	402	459
Revenue passengers enplaned ⁵	Millions	169	205	297	319	345	382	419	447
Domestic	Millions	153	189	273	297	321	357	394	416
International	Millions	16	16	24	22	24	25	25	31
Revenue passenger-miles flown ⁵	Billions	131.7	162.8	255.2	281.8	305.1	336.4	368.5	404.3
Domestic	Billions	104.1	131.7	200.8	226.9	243.7	270.6	302.1	324.5
International	Billions	27.6	31.1	54.4	54.9	61.4	65.8	64.5	79.8
Available seat-miles	Billions	265.2	303.0	432.5	464.5	515.3	547.8	607.4	648.4
Domestic	Billions	213.2	241.3	346.0	379.2	422.5	446.8	498.0	526.7
International	Billions	52.0	61.7	86.5	85.4	92.8	102.0	109.4	121.8
Passenger load factor	Percent	49.7	53.7	59.0	60.7	59.2	61.4	60.3	62.4
Domestic	Percent	48.9	54.6	58.0	59.8	57.7	60.7	60.7	61.6
International	Percent	53.0	50.4	62.8	64.3	66.2	64.6	58.9	65.6
Revenue passenger-miles per gallon of fuel	Number	13.1	17.1	22.6	26.8	26.6	28.7	26.8	27.8
Domestic	Number	13.3	17.4	21.8	26.5	25.9	26.8	27.1	28.0
International	Number	12.3	16.0	26.0	27.9	29.9	26.4	25.3	27.6
Average passenger-mile rate: ⁵ 7	Dollars	.060	.077	.113	.121	.128	.123	.112	.115
Domestic	Dollars	.050	.072	.075	.098	.099	.098	.102	.104
Express and freight revenue, ton-miles flown ⁵	Millions	3,515	4,796	5,742	6,092	6,566	6,020	7,344	8,260
Domestic	Millions	2,216	2,747	3,277	3,385	3,565	3,133	3,990	4,339
International	Millions	1,299	2,049	2,465	2,707	3,001	2,887	3,354	3,921
Mail, ton-miles flown ⁵	Millions	1,264	1,109	1,342	1,480	1,618	1,659	1,681	1,755
Domestic	Millions	715	683	949	1,085	1,181	1,214	1,247	1,312
International	Millions	549	426	393	415	457	445	434	443
Accidents ⁸ (scheduled passenger service):									
Total ⁹	Number	39	29	15	22	12	17	20	31
Fatal	Number	2	2	-	4	1	4	1	4
Fatality	Number	3	122	-	15	4	197	-	231

¹ Represents zero.

² The Airline Deregulation Act of 1978 lifted some restrictions on entering new markets. As a result there is no longer a clear distinction between domestic and international operators. Includes all cargo.

³ Scheduled airlines only. Source: Air Transport Association of America, Washington, DC, *Air Transport Facts and Figures*, annual.

⁴ Excludes those used for crew training and general utility purposes, or held for disposal. Beginning 1975, includes aircraft operated by the scheduled all-cargo certificated route air carriers. Beginning in 1986 also includes large aircraft (passenger seating capacity of more than 30 or a payload of more than 7,500 pounds) operated by commuters and air taxis.

⁵ Seats per aircraft mile. Passenger seat-miles divided by revenue-miles flown in passenger service.

⁶ Scheduled services of all certificated route air carriers; includes all cargo.

⁷ Includes all cargo. Beginning 1980 includes very small amount of gasoline.

⁸ Passenger revenues divided by revenue passenger-miles flown.

⁹ Beginning 1975, includes all scheduled services of U.S. air carriers operating under 14 CFR 121.

¹⁰ Includes mid-air collisions nonfatal to air carrier occupants (excluded in compilation of fatal accidents).

Source: Except as noted, U.S. Dept. of Transportation, Federal Aviation Administration and Research and Special Programs Administration, *Air Carrier Traffic Statistics*, monthly and *Air Carrier Financial Statistics*, quarterly. Includes data from U.S. National Transportation Safety Board.

No. 1045. LARGE AIR TRAFFIC HUBS—SUMMARY: 1987

[In thousands, except number of airports and percent change. For calendar year. Air traffic hubs are cities and standard metropolitan statistical areas requiring aviation services. A large hub is one which enplanes at least one percent of the total enplaned revenue passengers in all services and all operations of U.S. certificated route air carriers]

AREA OR LARGE HUB, 1987	Air-ports 1	AIRCRAFT DEPARTURES			REVENUE PASSENGERS ENPLANED		ENPLANED REVENUE TONS	
		Total 2	Scheduled		Total	Percent change 1980-1987	Total 3	Freight and express
			Number	Completed				
All areas.....	708	6,640.4	6,757.3	6,566.3	448,913.7	51.2	6,695.0	5,073.3
Total, 28 large hubs.....	45	4,120.4	4,192.4	4,078.8	316,041.6	56.2	4,187.4	3,027.7
Atlanta, GA.....	1	281.9	286.5	280.9	22,649.4	13.3	254.4	136.3
Boston, MA.....	1	116.8	117.8	114.3	10,255.3	49.8	138.9	106.0
Charlotte, NC.....	1	93.5	94.7	92.8	6,021.1	30.6	49.1	32.7
Chicago, IL.....	3	375.8	389.7	374.3	28,671.3	47.7	438.9	302.3
Dallas-Ft. Worth, TX.....	2	266.6	268.9	265.5	22,340.2	74.9	178.9	107.0
Denver, CO.....	1	201.2	204.9	198.1	15,593.6	62.2	120.4	68.4
Detroit/Ann Arbor, MI.....	2	137.0	140.0	136.7	9,254.5	83.2	92.0	54.8
Honolulu, HI.....	1	92.2	99.6	88.3	7,773.3	37.5	164.0	145.2
Houston, TX.....	2	180.2	162.1	159.2	10,858.8	58.5	73.8	50.8
Kansas City, MO.....	2	65.7	66.5	65.0	4,481.4	70.0	39.5	18.2
Las Vegas, NV.....	1	92.7	92.5	89.8	6,836.1	47.7	13.0	7.8
Los Angeles/Burbank/Long Beach, CA.....	4	269.2	273.9	266.8	23,219.2	42.1	382.4	315.4
Memphis, TN.....	1	107.3	108.7	107.0	5,023.0	133.8	534.3	513.3
Miami/Ft. Lauderdale, FL.....	2	149.4	151.4	147.5	13,271.5	20.2	190.4	159.0
Minneapolis/St. Paul, MN.....	1	10.1	112.3	109.6	8,310.2	89.5	100.5	53.7
Newark, NJ.....	1	126.5	138.4	133.5	11,288.9	168.4	159.8	129.4
New York, NY.....	2	201.7	204.1	198.2	21,486.3	22.6	321.4	106.4
Orlando, FL.....	1	86.2	86.2	84.6	7,074.7	126.4	28.7	20.5
Philadelphia, PA/Camden, NJ.....	1	95.2	97.1	94.5	6,802.7	62.7	97.3	49.8
Phoenix, AZ.....	1	128.5	129.3	127.6	8,784.9	159.9	43.2	47.5
Pittsburgh, PA/Wheeling, WV.....	2	119.9	121.1	119.2	8,156.0	51.6	41.0	16.0
St. Louis, MO.....	1	138.3	140.8	137.2	9,727.2	82.9	91.9	42.6
Salt Lake City, UT.....	1	74.6	75.4	74.4	4,728.6	136.8	44.2	27.7
San Diego, CA.....	1	63.2	64.1	62.5	4,901.4	93.2	23.4	15.3
San Francisco/Oakland, CA.....	3	192.3	195.7	190.2	15,096.6	46.1	286.3	232.6
Seattle/Tacoma, WA.....	2	108.9	110.2	107.7	6,826.5	56.8	140.8	106.2
Tampa/St. Petersburg/Clearwater/Lakeland, FL.....	2	69.0	69.8	68.5	4,799.0	33.3	31.6	19.3
Washington, DC.....	2	186.5	190.7	183.7	12,030.0	55.1	107.3	53.4

¹ Airports serving area or hub. Airports certificated under Federal Aviation Regulation (FAR Part 139) served by scheduled and unscheduled air carriers. ² Includes completed scheduled and unscheduled. ³ Includes foreign mail, not shown separately.

⁴ Revised since originally published.

Source: U.S. Federal Aviation Administration, *Airport Activity Statistics*, annual.

No. 1046. AIRLINE COST INDEXES: 1970 TO 1987

[Covers U.S. major and national service carriers. Major carriers have operating revenues of \$1 billion or more; nationals have operating revenues from \$75 million to \$1 billion]

ITEM	INDEX (1972=100)									PERCENT DISTRIBUTION OF CASH OPERATING EXPENSES					
	1970	1975	1980	1982	1983	1984	1985	1986	1987	1970	1975	1980	1986	1987	
Composite	87.8	142.5	262.5	304.3	309.4	312.3	313.4	293.1	299.2	100.0	100.0	100.0	100.0	100.0	
Labor	82.9	129.8	211.4	249.6	268.6	269.7	277.8	272.1	276.3	45.8	40.7	35.1	36.0	35.0	
Interest ²	99.0	125.0	167.2	188.6	195.5	205.5	198.8	191.2	185.3	3.6	2.7	2.9	3.6	3.4	
Fuel	84.3	250.8	770.3	841.8	762.0	729.2	689.6	473.6	477.2	12.8	18.9	28.7	16.3	16.0	
Passenger food	97.4	120.8	153.8	162.9	168.9	174.0	167.0	167.7	173.1	3.9	3.4	2.9	3.4	3.5	
Advertising and promotion	99.5	102.7	141.5	203.6	207.1	202.9	203.3	210.4	184.2	2.7	1.9	1.7	2.6	2.2	
Landing fees	82.2	136.1	192.9	214.4	215.2	217.8	217.6	242.6	262.2	2.2	2.4	1.7	2.0	2.0	
Passenger traffic commissions	80.2	154.0	322.8	417.4	445.3	487.4	491.4	499.8	540.4	2.6	3.4	4.8	8.0	8.6	
All other	95.5	127.6	184.4	215.2	223.5	231.9	239.2	245.4	252.7	26.4	26.6	21.3	28.1	29.3	
Average Annual Percent Change ³															
Labor	(NA)	9.4	10.3	8.7	7.6	.4	3.0	-2.1	1.5	(X)	(X)	(X)	(X)	(X)	
Interest ²	(NA)	4.8	6.0	6.2	3.7	5.1	-3.3	-3.8	-3.1	(X)	(X)	(X)	(X)	(X)	
Fuel	(NA)	21.6	25.2	4.5	-9.5	-4.3	-5.4	-31.3	.8	(X)	(X)	(X)	(X)	(X)	
Passenger food	(NA)	5.0	4.9	3.0	3.7	3.0	-4.0	.4	3.2	(X)	(X)	(X)	(X)	(X)	
Advertising and promotion	(NA)	.6	6.6	20.0	1.7	-2.0	.2	3.5	-12.5	(X)	(X)	(X)	(X)	(X)	
Landing fees	(NA)	10.6	7.2	5.4	.4	1.3	-1	11.5	8.1	(X)	(X)	(X)	(X)	(X)	
Passenger traffic commissions	(NA)	13.9	18.0	13.7	6.7	9.5	.8	1.7	8.1	(X)	(X)	(X)	(X)	(X)	
All other	(NA)	6.0	7.8	8.0	3.9	3.8	3.2	2.6	3.0	(X)	(X)	(X)	(X)	(X)	

NA Not available. X Not applicable. ¹Total operating expenses plus interest on long term debt, less depreciation and amortization. ²Interest on debt. ³Average change from prior year shown. See Guide to Tabular Presentation.

SOURCE: Air Transport Association of America, Washington, DC; Air Transport, 1986 annual; and unpublished data.

Source: Air Transport Association of America, Washington, DC, *Air Transport, 1986*, annual; and unpublished data.

Complaints Against Airlines—Accidents and Hijackings

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NO. 1047. CONSUMER COMPLAINTS AGAINST U.S. AIRLINES: 1986 TO 1988

[Calender year data, except as indicated. See source for data on individual airlines]

COMPLAINT CATEGORY	COMPLAINTS			PERCENT DISTRIBUTION				RANK		
	1987		1988, Jan.- June	1986, total	1987		1988, Jan.- June	1986, total	1987	
	Total	Jan.- June			Total	Jan.- June			Total	Jan.- June
Total	10,802	40,985	14,042	13,122	100.0	100.0	100.0	(X)	(X)	(X)
Flight problems ¹	3,390	18,019	5,566	5,658	31.3	43.9	39.6	43.1	1	1
Baggage	2,149	7,438	2,820	2,445	19.8	18.1	20.0	18.6	2	2
Customer service ²	702	3,888	1,124	1,097	6.4	9.4	8.0	8.3	5	3
Refunds	1,627	3,313	1,270	1,056	15.0	8.0	9.0	8.0	3	4
Oversales ³	849	2,122	854	809	7.8	5.1	6.0	6.1	4	3
Reservations/ticketing/ boarding ⁴	687	2,458	876	772	6.3	5.9	6.2	5.8	6	5
Smoking	311	888	336	325	2.8	2.1	2.3	2.4	8	8
Fares ⁵	468	937	415	258	4.3	2.2	2.9	1.9	7	7
Advertising	122	344	164	107	1.1	.8	1.1	.8	9	9
Credit	40	101	42	90	.3	.2	.2	.2	10	10
Tours	33	90	39	29	.3	.2	.2	.2	11	11
Other	424	1,387	536	536	3.9	3.3	3.8	4.0	(X)	(X)

X Not applicable. ¹ Cancellations, delays etc. from schedule. ² Unhelpful employees, inadequate meals or cabin service, treatment of delayed passengers. ³ All bumping problems, whether or not airline complied with DOT regulations. ⁴ Errors in reservations and ticketing; problems in making reservations and obtaining tickets. ⁵ Incorrect or incomplete information about fares, discount fare conditions and availability etc.

Source: U.S. Dept. of Transportation, Office of Consumer Affairs, *Air Travel Consumer Report*, monthly.

NO. 1048. AIRCRAFT ACCIDENTS AND HIJACKINGS: 1970 TO 1987

[For years ending December 31]

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987
Aircraft accidents: ¹									
General aviation ²									
Fatal	Number	4,712	3,995	3,590	3,075	3,010	2,741	2,581	2,420
Rate per 100,000 aircraft hours flown	Number	641	633	618	555	543	498	467	426
Fatalities	Number	1,310	1,252	1,239	1,064	1,039	952	950	798
Air carrier ³									
Fatal	Number	55	29	15	22	12	17	20	31
Rate per 1,000,000 aircraft miles flown	Number	8	2	-	4	1	4	1	4
Fatalities	Number	146	122	-	15	4	197	1	231
Commuter air carriers ⁴									
Fatal	Number	(NA)	48	38	18	22	21	15	35
Rate per 1,000,000 aircraft miles flown	Number	(NA)	12	8	2	7	7	2	10
Fatalities	Number	(NA)	.07	.04	.01	.02	.02	.01	.04
Air taxis ⁵									
Fatal	Number	(NA)	152	171	140	146	152	117	98
Rate per 100,000 aircraft hours flown	Number	(NA)	24	46	27	23	35	32	31
Fatalities	Number	(NA)	.95	1.27	1.05	.75	1.26	1.10	1.07
Hijacking incidents, worldwide									
U.S. registered aircraft	Number	83	25	40	33	22	35	12	17
Successful ⁶	Number	27	12	22	18	3	4	4	6
Foreign-registered aircraft	Number	18	4	13	13	2	2	-	1
Successful ⁶	Number	56	13	18	15	19	31	8	11

¹ Represents zero. NA Not available. ² Data from National Transportation Safety Board. ³ See text, section 22. ⁴ Beginning 1975, includes all scheduled service of U.S. Air Carriers operating under 14 CFR 121. ⁵ All scheduled service of U.S. Air Carriers operating under 14 CFR 135. ⁶ All nonscheduled service of U.S. Air Carriers operating under 14 CFR 135.

* Hijacker controls flight and reaches destination or objective.

Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual; and unpublished data. Includes data from U.S. Department of Transportation, Research and Special Programs Administration.

Transportation—Air and Water

No. 1049. COMMUTER/REGIONAL AIRLINE OPERATIONS—SUMMARY: 1979 TO 1987

[Calendar year data. Commuter/regional airlines operate primarily aircraft of predominately 60 passengers or less and 18,000 pounds of payload capacity serving short haul and small community markets. Represents operations within all North America by U.S. regional carriers. Averages are means. For definition of mean, see Guide to Tabular Presentation]

ITEM	Unit	1979	1980	1981	1982	1983	1984	1985	1986	1987
Passenger carriers operating	Number..	227	214	246	215	196	203	179	179	168
Passengers enplaned	Millions..	14.0	14.8	15.4	18.6	21.8	26.1	126.0	28.4	31.8
Average passengers enplaned per carrier	1,000..	61.7	69.2	82.6	86.5	111.2	128.1	152.4	158.4	187.7
Revenue passenger miles (RPM)	Billions..	1.72	1.92	2.09	2.61	3.24	4.17	14.41	4.47	5.00
Average RPMs per carrier	Millions..	7.58	8.87	8.65	12.14	16.53	20.46	124.64	24.98	28.80
Airports served	Number..	748	732	766	817	854	853	854	824	834
Average trip length	Miles..	123	129	136	141	149	160	173	158	168
Passenger aircraft operated	Number..	1,265	1,339	1,463	1,573	1,545	1,747	1,745	1,806	1,841
Average seating capacity (seats)	Number..	12.5	13.9	15.1	15.6	18.1	18.4	19.2	18.4	19.7
Fleet flying hours	1,000..	1,390	1,740	1,994	2,160	2,415	2,764	2,854	2,929	2,942
Average annual utilization aircraft	Hours..	1,193	1,299	1,363	1,373	1,563	1,582	1,635	1,622	1,598

¹ Adjusted to exclude a merger in 1986.

Source: Regional Airline Association, Washington, DC, 1988 Annual Report of the Regional Airline Industry (copyright).

No. 1050. CIVIL FLYING—SUMMARY: 1970 TO 1987

[As of Dec. 31 or for years ending Dec. 31, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series Q 604-623]

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987
Airports in operation ¹	Number..	11,261	13,261	15,161	15,831	16,029	16,075	16,318	16,582	17,015
Heliports	Number..	790	1,524	2,336	2,712	2,918	2,980	3,120	3,338	3,653
Public	Number..	4,280	4,573	4,814	4,805	4,812	4,806	5,861	4,924	4,984
Private	Number..	7,001	8,678	10,347	11,028	11,217	11,269	10,457	11,658	12,031
Airports with runway lights	Number..	3,554	4,171	4,738	4,844	4,878	4,889	4,941	4,954	4,922
Airports with paved runways	Number..	3,805	4,865	5,833	6,223	5,441	6,529	6,721	6,948	7,232
Miles of Federal airways	1,000..	324.7	403.9	411.1	366.2	364.4	364.8	368.5	332.0	332.9
Airport Improvement Program ²	Mil. dol..	50.5	339.9	639.0	407.1	721.5	733.3	842.1	1,615.3	919.4
Total civil aircraft	1,000..	154.5	196.3	259.4	259.0	264.9	271.5	274.9	275.7	275.1
Active aircraft ³	1,000..	134.5	171.2	214.8	214.0	217.5	225.3	215.4	224.9	(NA)
Air carriers, total ⁴	1,000..	2.8	2.5	3.8	4.2	4.2	4.4	4.7	4.9	5.2
General aviation aircraft ⁵	1,000..	131.7	168.5	211.0	209.8	213.3	220.9	210.7	220.0	(NA)
Fixed-wing aircraft:										
Multi-engine	1,000..	18.4	24.6	31.7	33.2	34.5	35.6	33.6	34.3	(NA)
Single-engine:										
4-place and over	1,000..	64.6	82.6	107.9	106.5	107.2	109.9	105.6	109.4	(NA)
3-place and less	1,000..	44.9	54.4	60.5	57.7	59.2	62.0	58.8	62.4	(NA)
Rotocraft ⁶	1,000..	2.2	4.1	6.0	6.2	6.5	7.1	6.4	6.8	(NA)
Balloons, blimps, gliders, etc.	1,000..	1.6	2.8	5.0	6.2	5.9	6.3	6.3	7.0	(NA)
Airman certificates held	1,000..	1,002	1,028	1,195	1,133	1,131	1,149	1,105	1,118	1,128
Pilot ⁷	1,000..	733	728	827	733	718	722	710	709	700
Held by women	Percent..	4.0	5.2	6.4	8.2	6.1	6.1	6.1	6.1	6.1
Airline transport	1,000..	34	43	70	73	75	79	83	87	91
Commercial	1,000..	187	189	183	165	159	155	152	148	144
Private	1,000..	304	306	357	322	319	320	311	306	301
Student	1,000..	196	177	200	156	147	150	147	150	146
Nonpilot ⁸	1,000..	269	300	368	400	413	427	395	410	428
Ground technicians ⁹	1,000..	241	271	321	352	365	376	341	353	377
FAA employees: Total	Number..	56,732	55,340	46,897	46,993	47,178	47,245	46,809	46,519	
Air traffic control specialists ¹⁰	Number..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Full performance ¹¹	Number..	26,790	27,190	22,072	22,638	23,234	23,580	23,515	23,288	
Developmental ¹¹	Number..	(NA)	(NA)	16,317	9,078	15,458	11,031	11,672	12,533	11,542
Assistants ¹¹	Number..	(NA)	(NA)	4,987	6,246	(X)	4,848	4,304	3,976	4,743
Traffic management coordinators ¹²	Number..	(X)	(X)	(X)	(X)	1,166	1,367	1,465	1,479	1,467
Electronic technicians	Number..	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	262
Aviation safety inspectors	Number..	(NA)	9,149	8,871	8,031	7,633	7,229	6,856	6,600	6,740
Engineers	Number..	(NA)	2,082	2,038	1,895	1,805	1,945	1,897	2,204	2,340
Other	Number..	(NA)	2,597	2,436	2,238	2,313	2,419	2,457	2,417	2,448
General aviation: ⁹	Number..	(NA)	16,114	14,805	12,721	12,504	12,351	12,455	12,073	11,701
Hours flown	Million ..	26.0	32.0	41.0	36.5	35.2	38.1	34.1	34.4	(NA)
Fuel consumed: ¹³										
Gasoline	Mill. gal..	362	397	520	448	428	482	420	410	(NA)
Jet fuel ¹⁴	Mill. gal..	415	510	766	887	613	739	691	732	(NA)

NA Not available. X Not applicable. ¹ Existing airports, heliports, seaplane bases, etc., recorded with FAA. Includes military airports with joint civil and military use. Included U.S. outlying areas. Airport-type definitions: Public—publicly owned and under control of a public agency; private—owned by a private individual or corporation. May or may not be open for public use.

² Fiscal year data. Does not include System Planning Grants. Includes U.S. outlying areas. 1970–1982 data are appropriated Federal funds under the Airport and Airway Improvement Act of 1962.

³ Registered aircraft that flew 1 or more hours during the year. ⁴ Includes helicopters. ⁵ See text, section 22. ⁶ Includes autogyros; excludes air carrier helicopters. ⁷ Includes all active pilots. An active pilot is one with a pilot certificate and a valid medical certificate. Also includes pilots who hold only a helicopter, glider, or lighter-than-air certificate, not shown separately. ⁸ Includes dispatchers, flight navigators and engineers, and ground technicians—mechanics, parachute riggers, and ground instructors. ⁹ No medical examinations are required, therefore, data represent all certificates on record and include retired or otherwise inactive technicians. ¹⁰ Includes all air traffic control specialists (staff positions, managers, supervisors, and for 1970–1986 traffic management coordinators, not shown separately) and air traffic assistants. Beginning in 1987, includes full-time permanent only. ¹¹ Serving in-flight service stations, towers, and centers. ¹² Prior to 1987, included in total air traffic control specialists. ¹³ Source: 1970 and 1975, U.S. Bureau of Mines; 1980–1986 FAA General Aviation Activity and Avionics Survey. ¹⁴ Includes kerosene-type and naphtha-type jet fuels.

Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual; and unpublished data. Includes data from U.S. Department of Transportation, Research and Special Programs Administration.

Aircraft Industry

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NO. 1051. U.S. AIRCRAFT SHIPMENTS: 1970 TO 1989

[Value in millions of dollars]

YEAR	TOTAL		CIVIL						MILITARY	
	Units	Value	Large transports ¹		General aviation ²		Helicopters		Units	Value
			Units	Value	Units	Value	Units	Value		
1970	11,632	7,511	311	3,158	7,292	337	495	49	3,534	3,967
1975	16,918	9,355	285	4,006	14,056	1,033	838	266	1,739	4,050
1980	14,660	18,845	383	9,793	11,877	2,486	1,353	874	1,047	5,892
1981	11,880	20,157	388	9,731	9,457	2,920	953	636	1,082	6,870
1982	6,248	19,266	236	6,254	4,266	2,000	587	365	1,159	10,847
1983	4,409	23,012	262	8,493	2,691	1,470	403	303	1,052	12,745
1984	3,931	22,570	188	6,343	2,431	1,681	376	330	936	14,216
1985	3,597	28,988	273	9,051	2,029	1,431	376	505	919	18,001
1986	3,284	34,981	329	10,643	1,495	1,282	330	288	1,110	22,788
1987	2,959	35,812	361	10,585	1,085	1,384	358	277	1,155	23,386
1988 ³	2,927	37,180	422	13,800	1,110	1,420	335	260	1,080	21,700
1989 ⁴	2,945	37,980	445	16,500	1,190	1,570	380	310	930	19,600

¹ Capacity over 70 seats. ² Includes aircraft kits for exports. ³ Estimated. ⁴ Forecast.

Source: U.S. Department of Commerce, International Trade Administration, *U.S. Industrial Outlook, 1989*.

NO. 1052. EMPLOYMENT AND EARNINGS IN AIRCRAFT INDUSTRIES: 1970 TO 1987

[Annual averages of monthly figures]

SIC ¹ code	ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987
(x)	Employment:										
3721	Total.....	1,000.....	664	607	763	732	720	746	814	878	906
3724	Aircraft.....	1,000.....	371	293	349	320	305	306	326	339	357
3728	Aircraft engines and engine parts.....	1,000.....	(NA)	126	163	149	140	140	148	154	157
376	Aircraft equipment, n.e.c. ²	1,000.....	(NA)	95	140	132	134	146	163	185	188
	Guided missiles, space vehicles, and parts.....	1,000.....	(NA)	93	111	131	141	154	177	200	204
(x)	Average weekly earnings: ³										
3721	Aircraft.....	Dollars.....	169	256	404	485	(NA)	(NA)	(NA)	(NA)	(NA)
3724	Aircraft engines and parts.....	Dollars.....	(NA)	247	394	454	476	523	542	561	567
376	Guided missiles, space vehicles, and parts.....	Dollars.....	(NA)	245	378	447	480	496	518	517	536
(x)	Average hourly earnings: ³										
3721	Aircraft.....	Dollars.....	4.17	6.21	9.66	11.85	(NA)	12.81	13.18	13.48	13.74
3724	Aircraft engines and parts.....	Dollars.....	(NA)	6.04	9.42	11.16	11.61	12.40	12.85	13.08	13.33
376	Guided missiles, space vehicles, and parts.....	Dollars.....	(NA)	6.02	9.22	10.95	11.59	11.82	12.14	12.20	12.60

NA Not available. X Not applicable. ¹ Standard Industrial Classification; see text, section 13. ² N.e.c.=Not elsewhere classified. ³ For production workers. ⁴ Excludes lump-sum payments. Earnings which include proration of lump-sum payments were \$13.11 in 1984; \$13.40 in 1985; \$13.80 in 1986; and \$14.32 in 1987.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

NO. 1053. AEROSPACE INDUSTRY—SUMMARY: 1975 TO 1989

[For calendar year, except employment and earnings annual averages of monthly figures. Includes Standard Industrial Classification Codes 372 and 376. Industry shipments refer to the total value of all products shipped by establishments classified in that industry. Product shipments refer to the total value of specific products shipped, irrespective of how the establishments which made them are classified.]

ITEM	Unit	1975	1980	1982	1983	1984	1985	1986	1987	1988 ¹	1989 ²
INDUSTRY DATA											
Value of shipments.....	Mil. dol.	29,055	58,485	66,466	74,823	77,826	90,795	100,999	109,713	116,560	123,368
In 1982 dollars.....	Mil. dol.	58,283	71,696	66,466	70,876	71,542	82,490	91,336	100,545	103,144	104,429
Employment, total.....	1,000.....	586	721	685	690	693	746	798	834	849	861
Production workers.....	1,000.....	312	387	349	341	344	372	400	421	426	432
Average hourly earnings.....	Dol.	6.53	9.90	12.23	13.08	13.24	13.88	14.37	14.75	15.17	(NA)
Capital expenditures.....	Mil. dol.	478	1,923	2,143	2,158	3,050	3,784	4,144	(NA)	(NA)	(NA)
PRODUCT DATA											
Value of shipments.....	Mil. dol.	26,834	53,296	60,024	66,229	70,200	80,625	90,907	98,140	104,303	110,171
In 1982 dollars.....	Mil. dol.	54,316	65,479	60,024	62,831	64,400	73,368	82,236	90,367	92,694	93,639

NA Not available. ¹ Estimated. ² Forecast.

Source: U.S. Department of Commerce, International Trade Administration, *U.S. Industrial Outlook, 1989*.

No. 1054. AEROSPACE—SALES, NEW ORDERS, AND BACKLOG: 1970 TO 1987

[In billions of dollars, except as indicated. Reported by establishments in which the principal business is the development and/or production of aerospace products]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Net sales.....	24.8	29.5	58.4	69.9	75.5	83.5	88.9	100.5	105.6	109.1
Percent of U.S. Government.....	66.3	58.7	45.6	47.2	55.9	58.8	62.7	63.2	61.8	62.1
Complete aircraft and parts ¹	10.4	11.3	22.8	25.1	23.2	27.3	28.3	34.2	36.0	37.0
Aircraft engines and parts.....	3.1	3.4	6.9	8.5	8.7	8.6	9.1	9.7	9.8	12.0
Missiles and space vehicles, parts.....	5.4	6.3	8.4	4.7	5.7	12.7	13.6	16.7	17.5	20.3
Other products, services.....	5.9	8.5	20.5	31.6	37.9	34.8	38.0	39.8	40.3	39.7
Net, new orders.....	21.2	29.0	70.4	72.7	84.9	91.6	104.9	111.0	110.8	119.1
Backlog, Dec. 31.....	24.7	35.0	90.5	93.4	103.5	116.6	132.5	143.0	148.2	167.3

¹ Except engines sold separately.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-37D.

No. 1055. AEROSPACE INDUSTRY SALES, BY PRODUCT GROUP AND CUSTOMER: 1970 TO 1987

[In billions of dollars. Due to reporting practices and tabulating methods, figures may differ from those in table 1054]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS ²					
	1970	1975	1980	1985	1986	1987 ¹	1970	1975	1980	1985	1986	1987 ¹
Total sales.....	25.6	29.7	54.7	96.6	106.2	112.0	69.9	56.0	68.1	86.2	93.4	96.9
PRODUCT GROUP												
Aircraft, total.....	14.1	16.4	31.5	50.5	56.4	59.7	38.5	31.0	39.2	45.1	49.6	51.6
Civil ³	4.4	6.5	16.3	13.7	15.7	16.5	12.0	12.2	20.3	12.3	13.8	14.3
Military.....	9.7	10.0	15.2	36.8	40.7	43.2	26.5	18.8	18.9	32.8	35.8	37.3
Missiles.....	4.1	3.8	6.5	11.4	12.0	10.6	11.2	7.1	8.1	10.2	10.5	9.2
Space.....	4.7	4.7	7.9	18.6	20.1	23.1	12.9	8.8	9.9	16.6	17.7	19.9
Related products and services ⁴	2.6	4.8	8.8	16.1	17.7	16.7	7.1	8.1	10.9	14.4	15.6	16.2
CUSTOMER GROUP												
Aerospace, total.....	22.9	24.9	45.9	80.5	88.5	93.4	62.6	47.0	57.1	71.9	77.8	80.8
DOD ⁵	14.6	13.1	22.8	53.2	58.2	60.3	39.9	24.8	28.4	47.5	52.0	52.2
NASA ⁶ and other agencies.....	3.0	2.8	4.1	6.3	6.2	7.1	8.2	5.3	5.1	5.6	5.5	6.1
Other customers ⁷	5.3	8.9	19.0	21.0	23.1	26.0	14.5	16.9	23.6	18.8	20.3	22.5
Related products and services ⁴	2.6	4.8	8.8	16.1	17.7	18.7	7.1	9.1	10.9	14.4	15.6	16.2

¹ Preliminary. ² Based on aerospace composite price deflator supplied by the U.S. International Trade Administration.

³ All civil sales of aircraft (domestic and export sales of jet transports, commuters, business and personal aircraft and helicopters). ⁴ Electronics, software, and ground support equipment, plus sales of non-aerospace products which are produced by aerospace-manufacturing establishments and which use technology, processes, and materials derived from aerospace products.

⁵ Department of Defense. ⁶ National Aeronautics and Space Administration. ⁷ Includes civil aircraft sales (see footnote 3), commercial space sales, all exports of military aircraft and missiles and related propulsion and parts.

Source: Aerospace Industries Association of America, Inc., Washington, DC, *Aerospace Facts and Figures*, 1988/89.

No. 1056. U.S. EXPORTS OF AEROSPACE VEHICLES AND EQUIPMENT: 1980 TO 1989

ITEM	NUMBER OF UNITS					VALUE (mil. dol.)				
	1980	1985	1987	1988 ¹	1989 ²	1980	1985	1987	1988 ¹	1989 ²
Aerospace vehicles and equipment, total.....	(NA)	(NA)	(NA)	(NA)	(NA)	15,681	18,726	23,452	26,136	27,679
Civil aircraft, total.....	4,434	1,080	1,812	2,292	2,153	8,378	6,694	7,518	10,616	11,400
Under 10,000 lbs, empty weight, new.....	3,150	465	473	486	495	657	147	254	236	240
10,000-33,000 lbs, empty weight, new.....	28	19	15	18	20	83	44	42	50	62
Over 33,000 lbs, empty weight, new.....	237	152	170	234	248	6,849	5,518	6,377	9,420	10,100
Rotary wing, new.....	525	137	240	254	240	299	210	200	180	168
Other new aircraft, n.e.c. ³	(NA)	(NA)	(NA)	(NA)	(NA)	5	442	141	200	130
Used, rebuilt, and converted.....	494	277	914	1,300	1,150	486	333	504	530	700
Military aircraft, total.....	502	322	485	525	480	949	2,012	3,587	2,190	2,150
Aircraft engines and parts, total.....	(NA)	(NA)	(NA)	(NA)	(NA)	1,887	3,283	4,396	4,940	5,304
Internal combustion and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	270	303	352	373	389
Military, new and used.....	110	72	249	300	330	4	2	4	5	6
Non-military, new.....	1,848	984	1,228	1,955	1,800	25	20	28	31	32
Non-military, used.....	1,365	1,402	1,822	2,250	2,300	17	24	25	32	36
Parts, n.e.c. ³	(NA)	(NA)	(NA)	(NA)	(NA)	224	257	295	305	315
Turbines and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	1,616	2,980	4,044	4,567	4,915
Military, new or used.....	254	244	183	215	225	59	144	157	202	215
Non-military, new and used.....	1,983	2,317	1,648	2,010	2,250	514	880	1,165	1,460	1,600
Parts, n.e.c. ³	(NA)	(NA)	(NA)	(NA)	(NA)	1,044	1,956	2,722	2,905	3,100
Missile engines and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	29	34	36	45	60
Propellers and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	57	55	47	68	75
Landing gear and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	92	102	131	128	140
Aircraft parts and accessories, n.e.c. ³	(NA)	(NA)	(NA)	(NA)	(NA)	3,436	5,449	6,497	6,910	7,200
Guided missiles and space vehicles.....	(NA)	(NA)	(NA)	(NA)	(NA)	327	404	353	300	330
Flight simulators.....	(NA)	(NA)	(NA)	(NA)	(NA)	54	82	107	110	130
Space vehicle equipment, n.e.c. ³	(NA)	(NA)	(NA)	(NA)	(NA)	392	387	457	470	490
Avionics.....	(NA)	(NA)	(NA)	(NA)	(NA)	80	224	323	361	400

NA Not available.

¹ Estimated.

² Forecast.

³ N.e.c.=Not elsewhere classified.

Source: U.S. Dept. of Commerce, International Trade Administration, *U.S. Industrial Outlook*, annual.

International Transactions—Transport Method

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No. 1057. U.S. RECEIPTS AND PAYMENTS FOR INTERNATIONAL TRANSPORTATION: 1970 TO 1987

[In millions of dollars. Data are international transportation transactions recorded for balance of payment purposes (see table 1358). Receipts include freight on exports carried by U.S.-operated carriers and foreign carrier expenditures in U.S. ports. Payments include freight on imports carried by foreign carriers and U.S. carrier port expenditures abroad. Freight on exports carried by foreign carriers is excluded since such payments are directly or indirectly for foreign account. Similarly, freight on U.S. imports carried by U.S. carriers is a domestic rather than an international transaction. Minus sign (—) indicates excess of payments over receipts. See *Historical Statistics, Colonial Times to 1970*, series U 3 and U 10, for totals.]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Total receipts	3,669	6,879	14,208	15,671	15,491	16,200	17,435	18,322	19,633	22,382
Ocean transportation	2,256	4,065	7,757	8,028	7,885	8,133	8,848	8,846	9,168	10,040
Export freight earnings	604	1,183	2,641	2,803	2,548	2,681	2,702	2,866	2,810	2,806
Freight earnings on shipments between foreign countries	209	328	588	561	555	575	563	574	576	595
Port expenditures	1,406	2,481	4,435	4,552	4,468	4,562	5,457	5,274	5,843	6,494
Charter hire	37	73	93	112	113	115	127	132	140	145
Air transportation	1,240	2,515	5,946	7,160	7,928	7,598	8,071	8,995	9,595	11,434
Export freight earnings	187	390	742	752	762	575	645	708	783	982
Passenger fares	541	1,039	2,591	3,111	3,174	3,610	3,626	3,648	4,175	5,398
Port expenditures	512	1,086	2,613	3,297	3,390	3,410	3,800	4,641	4,637	5,054
Other transportation	173	299	505	483	480	471	515	481	869	908
Total payments	4,058	7,971	15,397	16,961	16,482	18,225	21,876	23,528	24,189	26,945
Ocean transportation	2,380	4,465	8,447	8,900	8,307	8,624	10,544	11,018	11,618	11,777
Import freight payments	1,444	3,047	5,809	6,073	5,582	5,827	7,765	8,114	8,836	8,852
Passenger fares	245	278	268	287	290	305	305	320	320	328
Port expenditures	318	755	1,905	2,054	1,957	1,980	1,972	2,048	2,125	2,047
Charter hire	375	395	465	486	498	512	512	536	538	550
Air transportation	1,581	3,346	6,705	7,785	7,938	9,361	11,088	12,284	12,281	14,862
Import freight payments	115	248	582	671	725	1,068	1,633	1,686	2,051	2,242
Passenger fares	970	1,985	3,339	4,200	4,482	5,698	6,744	7,565	7,154	8,457
Port expenditures	496	1,115	2,804	2,914	2,731	2,597	2,712	3,053	3,076	4,163
Other transportation	97	160	245	276	237	240	243	226	289	306
Balance	-389	-1,092	-1,189	-1,280	-991	-2,028	-4,441	-5,206	-4,556	-4,563

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June issues, and unpublished data.

No. 1058. EXPORTS AND IMPORTS, BY METHOD OF TRANSPORT: 1970 TO 1987

[Exports are free alongside ship (f.a.s.) value (see text, section 29) for all years; imports are f.a.s. value for 1975 and 1980 and customs value for other years. Export data include both domestic and foreign; import data for general imports only. For details, see source]

ITEM	Unit	EXPORTS						IMPORTS					
		1970	1975	1980	1985	1986	1987	1970	1975	1980	1985	1986	1987
All methods ¹	Bil. dol....	43.2	107.6	220.7	213.1	227.2	254.1	40.0	96.9	240.8	345.3	365.4	406.2
Vessel	Bil. dol....	24.6	63.4	120.9	91.7	90.1	98.3	24.8	63.5	165.1	206.4	221.6	244.0
Air	Bil. dol....	6.1	15.2	46.1	52.3	63.4	69.0	3.4	8.9	28.0	51.3	62.0	67.0
Shipping weight: Vessel	Bil. lb....	480.5	598.5	801.8	700.5	653.8	708.6	598.4	855.3	976.8	797.0	914.2	938.0
Air	Bil. lb....	.9	1.4	2.3	1.8	2.1	2.4	.6	1.1	1.3	2.9	2.8	3.1

¹ Includes types other than vessel and air and revisions that are not distributed by method of transport.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT 990, monthly.

No. 1059. FEDERAL EXPENDITURES FOR CIVIL FUNCTIONS OF THE CORPS OF ENGINEERS, UNITED STATES ARMY: 1960 TO 1987

[In millions of dollars. For fiscal years ending in year shown, see text, section 9. These expenditures represent the work of the Corps of Engineers to plan, design, construct, operate, and maintain civil works projects and activities, particularly in the management and improvement of rivers, harbors, and waterways for navigation, flood control, and multiple purposes. The amounts listed below do not include the expenditure of funds contributed, advanced, or reimbursed by other government agencies or local interests. Includes Puerto Rico and outlying areas]

FISCAL YEAR	Total program ¹	Navigation	Flood control	Multiple purpose	FISCAL YEAR			Total program ¹	Navigation	Flood control	Multiple purpose
					1980	1981	1982				
1960.....	873	310	293	270	1980.....			3,198	1,339	1,273	527
1965.....	1,169	426	447	283	1981.....			2,940	1,331	1,083	453
1970.....	1,128	398	379	331	1982.....			2,959	1,290	1,088	482
1975.....	2,070	694	904	439	1983.....			3,085	1,383	1,154	445
1977.....	2,340	792	918	594	1984.....			2,956	1,234	1,187	419
1978.....	2,645	951	1,069	583	1985.....			3,163	1,345	1,300	402
1979.....	2,934	1,083	1,218	577	1986.....			2,937	1,135	1,272	411
1980.....	3,061	1,225	1,228	551	1987.....						

¹ Includes expenditures which are not associated with a specific purpose (e.g., headquarters staff supervision, management, and administration activities, and some research and development activities).

Source: U.S. Army Corps of Engineers, *Report of Civil Works Expenditures by State and Fiscal Year*, annual.

Transportation—Air and Water

NO. 1060. FREIGHT CARRIED ON INLAND WATERWAYS, BY SYSTEM: 1960 TO 1986

[In billions of ton-miles. Excludes Alaska and Hawaii, except as noted. Includes waterways, canals, and connecting channels]

SYSTEM	1960	1970	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	220.3	318.6	368.3	409.3	424.6	406.9	410.2	351.2	359.0	399.0	381.7	392.6
Atlantic coast waterways	28.6	28.6	30.4	30.5	31.9	30.4	29.3	25.4	22.5	24.7	24.8	25.8
Gulf coast waterways	16.9	28.6	37.6	37.1	38.1	36.6	35.1	31.8	32.4	36.7	36.5	39.0
Pacific coast waterways ¹	6.0	8.4	12.8	13.6	14.1	14.9	14.4	12.8	13.2	19.9	20.5	20.4
Mississippi River system ²	69.3	138.5	195.9	209.3	218.8	228.9	234.4	216.0	223.0	234.6	224.7	239.3
Great Lakes System ³	99.5	114.5	90.7	118.9	121.7	96.0	98.0	83.2	67.8	82.5	75.8	67.9

¹Includes Alaskan waterways. ²Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers. ³Does not include traffic between foreign ports.Source: U.S. Army Corps of Engineers, *Waterborne Commerce of the United States*, annual.

NO. 1061. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE AND VALUE, BY COASTAL DISTRICT: 1970 TO 1987

[Exports are free alongside ship (f.a.s.) value for all years; imports are f.a.s. value for 1975 and 1980 and customs value for other years see text, section 29. Includes commodities classified for security reasons as "Special Category" (exports only) and exports by Dept. of Defense (grant-aid shipments), and merchandise shipped in transit through the U.S. See Appendix III.]

DISTRICT	CARGO TONNAGE (mil. sh. tons)								VALUE (bil. dol.)							
	1970	1975	1980	1984	1985	1986	1987	1970	1975	1980	1984	1985	1986	1987		
Imports:																
Atlantic	219	232	183	197	190	216	224	15.0	34.7	71.5	92.6	94.4	97.5	105.8		
Gulf	47	134	243	155	141	171	184	2.9	14.3	56.4	35.7	32.8	27.0	30.5		
Pacific	31	64	56	47	51	53	56	5.5	15.2	45.0	70.6	90.4	104.0	118.4		
Great Lakes	26	22	16	18	17	14	14	1.3	1.7	1.9	2.7	2.8	2.3	2.0		
Exports:																
Atlantic	79	80	117	82	93	83	78	11.9	28.7	51.0	37.5	35.2	36.3	38.7		
Gulf	78	106	163	167	144	135	155	6.9	21.4	41.5	37.3	31.8	29.0	31.6		
Pacific	48	49	78	86	81	82	95	4.1	10.0	25.2	27.2	25.8	26.3	31.9		
Great Lakes	36	35	45	41	34	32	32	1.4	2.8	4.6	3.4	2.4	1.9	2.1		

Source: U.S. Bureau of the Census, *U.S. Waterborne Exports and General Imports*, FT 985, annual.

NO. 1062. DOMESTIC AND FOREIGN WATERBORNE COMMERCE, BY TYPE OF COMMODITY: 1970 TO 1986

[In millions of short tons. Domestic trade includes all commercial movements between U.S. ports and on inland rivers, Great Lakes, canals, and connecting channels of U.S., Puerto Rico, and Virgin Islands. Figures may differ from those shown in table 1061 due to minor differences in basic concepts.]

COMMODITY	1970		1980		1985		1986		Foreign			
	Total	Do- mestic	Total	Do- mestic	Total	Do- mestic	Total	Do- mestic	Im- ports		Ex- ports	
									1970	1980	1985	
Net total...	1,531.7	950.7	1,998.9	1,077.5	1,788.4	1,014.1	1,874.4	1,037.2	486.1	351.2		
Petroleum products ¹	394.7	287.3	423.2	339.2	368.8	259.0	402.7	270.6	91.7	40.4		
Gasoline	88.3	88.7	87.3	81.0	94.0	78.0	96.0	76.9	17.2	1.8		
Distillate fuel oil	78.7	76.9	74.5	72.1	70.0	55.0	78.1	59.6	12.6	5.9		
Residual fuel oil	170.5	78.8	189.0	141.3	130.0	83.7	142.5	88.9	43.6	9.8		
Crude petroleum	210.5	116.3	480.2	174.2	357.7	184.7	412.9	196.2	216.7	-		
Coal and lignite	225.4	154.1	256.4	164.1	273.9	179.9	283.9	196.7	1.9	85.3		
Nonmetallic minerals ^{1,2}	166.6	132.6	157.1	111.6	150.7	108.5	149.9	108.1	22.0	19.9		
Sand and gravel ³	78.4	73.9	65.1	60.8	66.4	62.0	68.0	63.6	2.8	1.5		
Limestone	42.0	34.1	34.2	23.9	24.5	21.9	25.0	21.6	.7	2.7		
Phosphate rock	16.6	5.8	23.7	9.5	19.4	8.4	16.5	7.9	.5	8.1		
Iron and concentrates	129.3	75.2	98.4	64.9	72.7	50.0	67.0	43.7	18.3	5.0		
Farm products ¹	90.4	28.5	216.8	63.4	172.8	60.0	152.7	54.8	6.5	91.5		
Corn	27.2	11.7	98.6	30.8	76.3	28.0	50.1	21.1	.1	28.9		
Wheat	25.0	5.8	53.4	14.3	36.0	10.6	37.4	10.2	.1	27.0		
Soybeans	21.2	8.3	39.8	16.1	32.9	14.9	41.0	18.1	-	23.0		
Chemicals and allied products	62.0	38.7	91.9	49.4	108.5	53.3	113.3	57.9	26.6	29.8		
Food and kindred products	35.0	11.0	54.8	20.4	52.5	17.6	58.1	20.0	13.4	24.8		
Lumber and wood products ⁴	48.9	27.3	52.0	22.7	47.2	18.8	51.3	22.8	4.9	23.6		
Primary metal products	42.4	10.8	28.9	9.0	33.4	8.5	30.3	8.4	20.5	1.4		
Waste and scrap	25.9	18.0	31.1	18.8	37.4	23.9	39.0	23.1	.7	15.2		
Other	98.7	51.9	108.1	39.8	112.8	40.0	113.3	34.9	62.9	15.5		

¹Represents zero. ²Includes categories not shown separately. ³Excludes fuels. ⁴Includes crushed rock.Source: U.S. Army Corps of Engineers, *Waterborne Commerce of the United States*, annual.

Vessels Entered and Cleared in Foreign Trade—Vessels Completed 619

NO. 1063. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY FLAG OF CARRIER VESSEL: 1961 TO 1987

[In millions of net tons, except as indicated. Includes Puerto Rico and Virgin Islands. Seaports comprise all ports except Great Lakes ports. See also *Historical Statistics, Colonial Times to 1970*, series Q 507-517]

YEARLY AVERAGE OR YEAR	ALL PORTS				SEAPORTS						
	Number of vessels	Tonnage, all vessels			Tonnage, all vessels			Tonnage, with cargo			
		Total	U.S.	Percent U.S.	Foreign	Total	U.S.	Foreign	Total	U.S.	Foreign
Entered:											
1961-1965	49,670	188	33	17.9	155	166	30	136	128	19	109
1966-1970	53,458	232	29	12.5	203	206	27	180	157	18	139
1971-1975	53,780	319	30	9.5	290	292	28	264	220	24	196
1976-1980	53,700	458	40	8.7	418	425	38	387	316	30	286
1981-1985	50,124	452	57	12.4	395	424	55	369	277	36	241
1970	53,293	254	26	10.3	228	227	24	202	171	19	152
1975	51,443	355	32	9.9	323	328	30	287	240	26	215
1980	53,645	492	52	10.6	440	460	50	410	310	34	276
1984	49,239	459	53	11.5	406	429	51	378	291	33	258
1985	53,531	451	53	11.7	398	426	52	374	283	34	249
1986	56,859	489	49	10.0	439	463	48	415	310	32	278
1987	59,563	518	48	9.3	470	492	47	445	333	29	304
Cleared:											
1961-1965	48,098	189	34	17.8	155	168	30	137	96	20	76
1966-1970	52,415	232	30	12.8	202	206	27	179	122	23	99
1971-1975	53,039	324	31	9.9	293	296	29	287	149	21	127
1976-1980	52,931	453	41	9.1	412	420	39	382	203	26	177
1981-1985	50,291	480	57	12.4	403	432	55	377	251	34	217
1970	52,195	253	27	10.6	226	226	25	201	132	20	112
1975	51,017	363	34	10.3	329	334	31	303	168	23	144
1980	52,828	487	54	11.1	433	456	51	405	246	33	213
1984	49,819	468	54	11.5	414	438	51	387	250	32	218
1985	53,095	461	55	11.9	406	435	53	382	253	36	217
1986	55,710	491	51	10.4	441	466	49	417	246	33	212
1987	58,307	521	49	9.4	472	495	48	447	269	31	238

Source: U.S. Bureau of the Census, through 1965, *Foreign Commerce and Navigation of the United States*; thereafter, *Vessel Entrances and Clearances*, FT 975, annual.

NO. 1064. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY COASTAL DISTRICTS: 1970 TO 1987

[In millions of net tons. Excludes domestic trade. Virgin Islands and Puerto Rico included in South Atlantic Coast, Hawaii in South Pacific Coast, Alaska in North Pacific Coast]

COASTAL DISTRICT	VESSELS ENTERED							VESSELS CLEARED						
	1970	1975	1980	1984	1985	1986	1987	1970	1975	1980	1984	1985	1986	1987
North Atlantic Coast	102.1	114.2	118.6	116.2	114.5	121.4	119.2	99.9	116.8	115.2	107.0	110.8	116.2	109.6
With cargo	85.4	92.3	82.1	93.4	85.9	89.9	100.2	43.7	50.6	57.8	47.1	52.7	47.8	45.4
South Atlantic Coast	36.1	48.0	65.3	63.8	68.2	77.6	85.8	31.3	46.0	60.1	62.7	63.3	70.3	80.5
With cargo	27.1	33.8	41.9	42.7	44.3	44.0	47.4	11.9	14.3	22.4	24.6	25.6	25.9	28.1
Gulf Coast	36.1	69.1	172.7	138.5	127.4	146.6	162.7	42.8	98.1	175.0	144.6	134.8	153.1	167.3
With cargo	23.0	60.8	122.8	91.5	84.6	103.1	112.6	36.8	54.2	85.0	79.1	73.5	73.4	83.0
South Pacific Coast	27.5	38.4	53.3	60.9	65.4	68.1	67.6	27.7	41.2	45.1	58.8	59.4	60.8	63.5
With cargo	21.8	32.4	38.0	41.0	44.0	45.2	45.4	20.9	34.0	31.7	44.9	45.0	44.3	49.7
North Pacific Coast	24.9	36.8	50.6	49.5	50.0	51.4	56.9	24.3	33.8	60.3	64.8	66.7	65.8	73.5
With cargo	13.6	21.1	26.6	22.1	23.7	27.8	27.3	19.0	24.5	49.0	54.7	56.0	54.1	62.9
Great Lakes	27.5	28.8	31.1	30.1	26.3	26.4	28.4	27.2	29.4	31.5	30.0	26.1	25.1	26.5
With cargo	15.2	14.0	11.3	13.5	11.6	11.7	11.6	20.2	21.2	23.7	23.1	20.7	19.8	20.5

Source: U.S. Bureau of the Census, *Vessel Entrances and Clearances*, FT 975, annual.

NO. 1065. DOMESTIC MERCHANT VESSELS COMPLETED BY U.S. SHIPYARDS: 1970 TO 1986

[Vessels of 1,000 gross tons and over. See also *Historical Statistics, Colonial Times to 1970*, series Q 438-448]

TYPE	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Merchant vessels	Number	13	15	17	14	15	10	12	11	13	5	8	5
Gross tons	1,000	342	452	884	912	1,149	375	275	375	376	118	172	215
Cargo	Number	6	3	2	2	4	6	2	6	6	-	4	2
Gross tons	1,000	120	65	25	27	53	105	53	221	228	-	113	66
Deadweight tons	1,000	134	71	37	30	47	114	73	219	219	-	97	53
Tankers	Number	7	12	15	12	11	4	10	5	7	5	4	3
Gross tons	1,000	222	387	859	885	1,096	270	222	116	148	118	59	149
Deadweight tons	1,000	427	742	1,585	1,392	1,901	354	358	228	277	210	92	271

- Represents zero.

Source: U.S. Maritime Administration, *New Ship Construction*, annual.

Transportation—Air and Water

NO. 1066. UNITED STATES FLAG MERCHANT VESSELS—NUMBER AND VESSEL DEADWEIGHT
TONNAGE: 1970 TO 1987

[Deadweight tonnage in thousands. As of end of fiscal year; see text, section 9. Covers ocean-going vessels of 1,000 gross tons and over engaged in foreign and domestic trade, and inactive vessels. Excludes special types such as tugs, barges, cable ships, fishing trawlers, and vessels employed on Great Lakes. See also *Historical Statistics, Colonial Times to 1970*, series Q 467-502]

ITEM	CARGO ¹						TANKER					
	1970	1975	1980	1985	1986	1987	1970	1975	1980	1985	1986	1987
Number of vessels	1,479	612	553	485	484	470	301	279	310	263	254	254
Active:												
Foreign trade	354	228	195	129	123	97	32	39	32	32	33	38
Domestic trade ²	70	49	46	36	37	40	175	156	211	135	131	130
Coastwise ³	10	17	12	4	8	11	132	136	103	24	88	81
Nonconiguous	43	29	34	30	29	29	35	12	45	52	43	49
Special service	146	34	44	45	41	37	42	26	23	26	26	25
Inactive:												
Temporarily	41	38	31	58	55	60	22	31	24	50	42	38
Reserve fleet	868	283	237	217	228	236	30	27	20	20	22	23
Vessel deadweight tonnage	15,445	8,175	7,872	8,792	9,106	9,040	7,835	9,433	16,107	15,647	15,393	16,074
Active:												
Foreign trade	4,695	3,901	3,826	3,823	3,468	2,628	1,076	2,303	2,793	1,825	2,007	2,174
Domestic trade ²	850	832	713	659	775	881	4,518	4,855	10,546	8,809	8,689	8,700
Coastwise ³	116	354	200	108	226	340	4,483	4,299	3,078	1,028	3,831	3,386
Nonconiguous	482	424	479	509	549	541	870	339	3,689	5,534	5,088	5,314
Special service	1,741	458	580	932	860	798	1,189	755	661	747	745	744
Inactive:												
Temporarily	472	541	451	1,168	1,204	1,748	691	1,173	1,806	3,758	3,474	3,530
Reserve fleet	7,884	2,442	2,322	2,408	2,789	3,087	361	347	301	408	468	926

¹ Includes combination passenger and cargo vessels, not shown separately. ² Prior to 1986 includes intercoastal, not shown separately. ³ Beginning 1986, includes intercoastal.

Source: U.S. Maritime Administration, *Employment Report of the United States Flag Merchant Fleet Ocean-going Vessels 1,000 Gross Tons and Over*, annual.

NO. 1067. PRIVATE SHIPYARDS—SUMMARY: 1970 TO 1988

(For calendar year, unless noted. See also *Historical Statistics, Colonial Times to 1970*, series Q 449-458 and series Q 467-472)

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988
Employment	1,000	139.4	166.9	177.3	186.9	143.0	142.0	130.3	120.8	119.8	113.8
Production workers	1,000	108.5	123.4	141.8	130.8	112.0	111.0	99.0	80.3	85.4	85.4
Value of work done	Mil. dol.	2,682	5,615	9,269	10,079	8,683	8,944	9,358	8,840	(NA)	(NA)
On ships only	Mil. dol.	2,584	5,513	8,889	10,655	9,107	8,308	9,483	8,913	(NA)	(NA)
Value added	Mil. dol.	1,618	2,923	5,338	6,386	5,752	5,206	5,740	5,426	(NA)	(NA)
Building activity:											
Merchant vessels: ²											
Under construction ³	Number	49	96	69	35	21	10	10	7	6	—
Ordered	Number	13	14	7	3	4	5	—	—	—	—
Delivered	Number	13	19	23	17	15	5	3	1	4	1
Cancelled	Number	—	12	4	—	—	—	—	—	2	1
Under contract ⁴	Number	49	79	49	21	10	10	7	6	—	—
Naval vessels: ²											
Under construction ³	Number	108	83	99	93	105	111	100	85	79	84
Ordered	Number	8	16	11	30	27	11	11	16	20	(NA)
Delivered	Number	32	3	19	18	21	22	26	20	15	(NA)
Under contract	Number	82	76	91	105	111	100	85	79	84	(NA)
Repairs/conversions:											
Commercial ships	Mil. dol.	431	688	1,335	1,592	1,419	1,631	852	847	(NA)	(NA)
Naval ships	Mil. dol.	359	554	1,134	1,571	1,689	1,641	2,311	2,008	(NA)	(NA)
Unfinished work: ³											
Commercial ships	Mil. dol.	765	4,350	2,070	838	372	100	450	315	53	—
Naval ships	Mil. dol.	1,719	5,424	7,107	8,025	12,200	14,003	12,091	9,595	8,265	10,500

¹ Represents zero. ² NA. Not available. ³ Estimate as of June. ⁴ Vessels of 1,000 tons or larger. ⁵ As of Jan. 1. ⁶ As of Dec. 31. ⁷ Two ships were cancelled during 1986.

Source: Shipbuilders Council of America, Washington, DC, *Annual Report*.

No. 1068. EMPLOYEES IN GOVERNMENT AND PRIVATE SHIPYARDS: 1960 TO 1987

[In thousands. Annual average employment in establishments primarily engaged in building and repairing all types of ships, barges, canal boats, and lighters of 5 gross tons and over, whether propelled by sail or motor power, or towed by other craft. Includes all full- and part-time employees]

YEAR	Total	Pri- vate yards	Navy yards	YEAR	Total	Pri- vate yards	Navy yards	YEAR	Total	Pri- vate yards	Navy yards
1960.....	208	112	96	1978.....	243	172	71	1983.....	227	143	84
1970.....	216	134	83	1979.....	244	173	71	1984.....	229	146	83
1975.....	217	154	65	1980.....	251	178	73	1985.....	219	138	80
1976.....	233	168	65	1981.....	264	187	77	1986.....	206	131	75
1977.....	242	174	68	1982.....	252	172	80	1987.....	202	126	76

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly, and unpublished data.

No. 1069. EMPLOYMENT ON U.S. FLAG MERCHANT VESSELS, 1970 TO 1987, AND BASIC MONTHLY (JANUARY) WAGE SCALE FOR ABLEBODIED SEAMEN, 1970 TO 1988

[Employment in thousands. See also *Historical Statistics, Colonial Times to 1970*, series Q 414-416]

YEAR	Em- ploy- ment ¹	YEAR	Em- ploy- ment ¹	YEAR	East coast wage rate ²	West coast wage rate ²	YEAR	East coast wage rate ²	West coast wage rate ²
1970.....	37.6	1982.....	16.7	1970.....	\$470	\$652	1982.....	\$1,204	\$1,686
1975.....	20.5	1983.....	15.3	1975.....	612	800	1983.....	1,320	1,882
1978.....	18.9	1984.....	13.7	1977.....	737	1,072	1984.....	1,419	2,029
1979.....	19.7	1985.....	13.1	1978.....	804	1,172	1985.....	1,419	2,069
1980.....	19.6	1986.....	11.5	1979.....	865	1,287	1986.....	1,419	2,132
1981.....	18.3	1987.....	10.4	1980.....	987	1,414	1987.....	1,419	2,132
				1981.....	1,120	1,535	1988.....	1,419	2,175

¹ As of June 30, except beginning 1978, as of Sept. 30. Estimates of personnel employed on merchant ships, 1,000 gross tons and over. Excludes vessels on inland waterways, Great Lakes, and those owned by, or operated for, U.S. Army and Navy, and special types such as cable ships, tugs, etc. ² Basic monthly wage, over and above subsistence (board and room); excludes overtime and fringe pay benefits. West coast incorporates extra pay for Saturdays and Sundays at sea into base wages but east coast does not.

Source: U.S. Maritime Administration, *U.S. Merchant Marine Data Sheet*, monthly and unpublished data.

No. 1070. WORLDWIDE TANKER CASUALTIES: 1975 TO 1988

[Data for 1975-1982 covers tankers, ore/oil carriers and bulk/oil vessels of 6,000 deadweight tons and over; beginning 1983, 10,000 deadweight tons and over; excludes liquid gas carriers. Incident is counted in the year it is reported. Based on data from "Lloyd's List" published by Lloyd's of London. "Casualties" include weather damage, strandings, collisions and other contact, fires and explosions, machinery damage, and other mishaps]

ITEM	Unit	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988 ¹
Casualties.....	Number.....	906	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	340	451	408	195
Total losses ²	Number.....	22	26	15	21	21	11	14	12	8	5	1
Deaths.....	Number.....	90	308	132	73	72	14	68	63	23	12	32
Oil spills.....	Number.....	45	65	32	93	9	17	15	8	8	12	5
Amount.....	1,000 tons.....	186.0	723.5	135.6	45.3	1.8	387.8	22.4	79.8	5.0	8.7	33.4

NA Not available. ¹Jan.-June. ²Excludes losses due to hostilities.

Source: Tanker Advisory Center, Inc., New York, NY, "Worldwide Tanker Casualty Returns," quarterly.

No. 1071. MERCHANT VESSELS—WORLD AND UNITED STATES: 1960 TO 1987

[Vessels of 100 gross tonnage and above. Excludes sailing ships, nonpropelled craft, and all ships built of wood. See also *Historical Statistics, Colonial Times to 1970*, series Q 473-480]

YEAR	WORLD: COMPLETED		WORLD: OWNED		U.S.: COMPLETED		U.S.: REGISTERED	
	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)
1960.....	2,005	8,382	36,311	129,770	49	379	4,059	24,837
1965.....	2,202	11,763	41,885	160,392	116	218	3,416	21,527
1970.....	2,814	20,980	52,444	227,490	156	375	2,983	18,463
1980.....	2,412	13,101	73,832	419,911	205	555	5,579	18,464
1982.....	2,312	16,820	75,151	424,742	204	216	6,133	19,111
1983.....	2,276	15,911	78,106	422,590	159	381	6,437	19,358
1984.....	2,210	18,334	76,088	418,882	73	84	6,441	19,292
1985.....	1,964	18,157	76,395	416,269	66	180	6,447	19,518
1986.....	1,634	16,845	75,268	404,910	36	223	6,498	19,901
1987.....	1,528	12,259	75,240	403,498	29	164	6,427	20,178

Source: Lloyd's Register of Shipping, London, England, *Statistical Tables*, annual; and *Annual Summary of Merchant Ships Completed in the World*.

Transportation—Air and Water

NO. 1072. MERCHANT VESSELS—SHIPS AND TONNAGE LOST WORLDWIDE, BY TYPE OF SHIP:
1980 TO 1986

[For merchant vessels of 100 gross tonnage and above. Excludes ships which have been declared constructive losses but have undergone repair during the year. Loss counted in the year the casualty occurred, providing that information available at time of relevant publication]

TYPE OF SHIP	SHIPS LOST					GROSS TONNAGE LOST (1,000)				
	1980	1984	1985	1986		1980	1984	1985	1986	
				Total	Percent of total				Total	Percent of total
Total ¹	387	327	307	265	100.0	1,804	2,354	1,651	2,609	100.0
Tankers.....	24	25	19	23	8.7	707	1,542	776	1,386	53.1
Ore/bulk carriers ²	21	17	22	20	7.5	458	271	405	757	29.0
General cargo.....	211	178	155	128	46.3	478	401	363	341	13.1
Container ships.....	2	3	5	2	.8	6	94	41	15	.6
Passenger ³	9	2	-	2	.8	112	17	-	37	1.4
Fishing	96	73	66	44	16.6	30	33	26	16	.6

¹ Represents zero. ² Includes types not shown separately. ³ Includes ore/bulk/oil carriers.

Source: Lloyd's Register of Shipping, London, England, *Casualty Return*, annual.

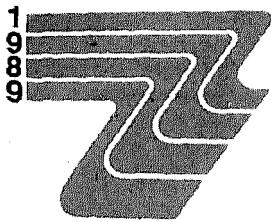
NO. 1073. MERCHANT FLEETS OF THE WORLD: 1980 TO 1986

[Vessels of 1,000 gross tons and over. As of Jan. 1 of the following year. Specified countries have 100 or more ships]

YEAR AND COUNTRY OF REGISTRY, 1986	TOTAL		PASSENGER/CARGO COMB.		FREIGHTERS		BULK CARRIERS ¹		TANKERS	
	Number	Avg. age (yr.)	Number	Avg. age (yr.)	Number	Avg. age (yr.)	Number	Avg. age (yr.)	Number	Avg. age (yr.)
1980, world total	24,887	13	468	24	14,242	14	4,798	10	5,359	12
United States.....	864	23	65	34	471	23	20	22	308	20
Foreign	24,003	13	403	22	13,771	13	4,778	10	5,051	11
1985, world total	25,555	14	375	25	13,937	15	5,787	11	5,456	13
United States.....	737	23	37	38	417	25	25	9	258	19
Foreign	24,818	14	398	23	13,520	15	5,762	11	5,198	13
1986, world total	23,618	14	352	25	12,766	14	5,481	11	4,999	13
United States.....	720	23	36	39	411	25	26	10	247	18
Privately owned.....	456	17	8	30	197	16	26	10	225	17
Government-owned.....	264	33	28	42	214	32	(X)	22	81	81
Foreign	22,898	13	316	23	12,375	14	5,455	11	4,752	13
Argentina.....	153	16	-	(X)	86	17	18	12	49	16
Bananas, The.....	222	11	12	18	77	11	42	9	91	11
Brazil.....	333	14	3	26	154	17	93	7	83	14
British Colonies.....	543	12	3	20	208	14	240	10	92	17
Bulgaria.....	119	15	4	13	51	16	47	13	17	17
China: Mainland.....	1,076	17	12	25	728	18	196	14	140	16
Taiwan.....	194	12	1	16	122	12	54	10	17	14
Cuba.....	106	15	2	30	82	15	9	17	13	15
Cyprus.....	904	15	5	31	527	15	250	14	122	15
Denmark.....	239	8	3	23	149	8	11	7	76	9
East Germany.....	158	14	1	5	133	14	20	15	4	8
Egypt.....	135	17	9	28	100	17	16	7	10	29
France.....	227	11	7	10	125	11	28	8	67	13
Greece.....	1,270	15	30	32	428	17	594	12	220	15
Honduras.....	119	24	-	(X)	89	23	11	26	19	21
India.....	322	13	5	22	147	15	111	13	59	8
Indonesia.....	316	17	6	12	214	19	11	7	85	14
Iran.....	118	12	-	(X)	39	15	54	8	25	13
Italy.....	518	17	9	27	204	15	91	16	212	18
Japan.....	1,437	8	6	12	605	8	443	9	383	8
Liberia.....	1,550	11	10	16	318	12	617	11	605	11
Malaysia.....	167	14	1	34	105	16	21	11	40	11
Malta.....	151	20	2	54	88	19	51	19	10	19
Netherlands.....	437	8	4	10	345	8	20	7	68	8
Norway.....	279	10	22	20	100	11	56	8	101	9
Panama.....	3,278	12	33	30	1,770	13	920	10	555	11
Philippines.....	486	13	13	27	200	15	227	8	46	21
Poland.....	266	13	2	23	163	14	92	12	9	12
Romania.....	282	11	-	(X)	208	11	66	10	8	12
Saudi Arabia.....	134	19	3	26	54	21	12	16	85	17
Singapore.....	416	12	1	38	224	14	91	10	100	12
South Korea.....	455	14	-	(X)	224	14	161	15	70	13
Soviet Union.....	2,453	16	50	21	1,759	17	229	11	415	16
Spain.....	418	11	-	(X)	262	11	67	11	89	14
Sweden.....	181	11	2	24	105	11	16	12	58	12
Thailand.....	100	20	-	(X)	73	21	3	17	24	19
Turkey.....	324	13	6	33	206	12	62	15	50	15
United Kingdom.....	395	12	13	17	151	12	73	11	158	13
West Germany.....	448	6	6	9	352	5	16	5	74	8
Yugoslavia.....	264	15	4	25	177	16	72	13	11	14
All others.....	1,907	13	26	23	1,225	14	244	11	412	13

¹ Represents zero. X Not applicable. ² Includes bulk/oil, ore/oil, and ore/bulk/oil carriers.

Source: U.S. Maritime Administration, *A Statistical Analysis of the World's Merchant Fleets*, annual.



Section 23

Agriculture

This section presents statistics on farms and farm population; land use and irrigation; farm cooperatives; farm income, expenditures, and debt; farm output, productivity, and marketings; foreign trade in agricultural products; specific crops; and livestock, poultry, and their products.

The principal sources are the reports issued by the U.S. Bureau of the Census and by the National Agricultural Statistics Service (NASS) and the Economic Research Service (ERS) of the U.S. Department of Agriculture. The Bureau of the Census has taken a census of agriculture every 10 years from 1840 to 1920 and every 5 years from 1925 through 1974. Two 4-year censuses, taken for 1978 and 1982, adjusted the data reference year to coincide with the economic censuses for 1982. The 1982 Census of Agriculture is the most recent census for which reports are presently available. The Department of Agriculture publishes annually *Agricultural Statistics*, a general reference book on agricultural production, supplies, consumption, facilities, costs, and returns. The Economic Research Service publishes a series of annual reports, *Economic Indicators of the Farm Sector*. This series comprises five reports: *National Financial Summary*, *State Financial Summary*, *Production and Efficiency Statistics*, *Costs of Production*, and *Farm Sector Review*. Sources of current data on agricultural exports and imports include *Foreign Agricultural Trade of the United States*, published by the ERS, and the reports of the Bureau of the Census, particularly *U.S. General Imports, Schedule A, Commodity by Country*, and *U.S. Exports, Schedule B, Commodity by Country*.

The 44 field offices of the NASS collect data on crops, livestock and products, agricultural prices, farm employment, and other related subjects mainly through sample surveys. Information is obtained on some 75 crops and 50 livestock items as well as scores of items pertaining to agricultural production and marketing. State estimates and supporting information are sent to the Agricultural Statistics Board of NASS which reviews the estimates and issues reports containing State and national data. Among these reports are annual summaries such as *Crop Production*, *Crop Values*, *Agricultural Prices*, and *Livestock Production, Disposition and Income*.

Farms and farmland.—Over time, the Bureau of the Census has used varying definitions of a farm. Data from the census of agriculture reflect the changes in definition since figures are presented for "farms" as defined during the years indicated. For the 1974, 1978, and 1982 Censuses of Agriculture, a farm was defined as any place from which \$1,000 or more of agricultural products were sold, or normally would have been sold during the census year. Control may have been exercised through ownership or management, or through a lease, rental, or cropping arrangement. In the case of landowners who had one or more tenants, or renters, the land operated by each was counted as a separate farm. The effect of the change in definition must be considered when comparing farms in the 1974, 1978, and 1982 censuses with those in previous censuses. In the 1969 census, as well as the 1959 and 1964 censuses, places of less than 10 acres were counted as farms if estimated sales of agricultural products for the year amounted to at least \$250, and places of 10 or more acres if such sales amounted to at least \$50.

Unless otherwise stated in the specific tables of this section, the definition of a farm applicable to data originated by the Department of Agriculture is the one used by the Bureau of the Census for the agriculture census immediately preceding the year or years for which the data are shown.

Farmland refers to all land under the control of a farm operator, including land not actually under cultivation or not used for pasture or grazing. Land used for pasture or grazing on a per head basis that was neither owned nor leased by a farm operator is not included except for grazing lands controlled by grazing associations leased on a per acre basis.

Coverage estimates for 1978 and 1982 indicate about 3.4 and 9.1 percent of all farms, respectively, were not included in census totals. Farms undercounted in the census were usually small and accounted for approximately 2 percent of the total value of agricultural products sold and approximately 2 percent of the land in farms. For more explanation about data comparability, see Ap-

pendixes A and C, *1982 Census of Agriculture*, volume 1 reports and *Coverage Evaluation, Volume 2, Part 2*.

Farm population.—Farm population consists of all persons living on farms in rural areas. Farm population data shown for 1960 to 1975 are based on the definition of a farm used for the 1965 Census of Agriculture. Farm population data for 1978 to 1983 are shown on the basis of both the 1969 and 1974 census farm definitions and are so indicated. Beginning in 1984, farm population data are based only on the 1974 census farm definition.

Farm Income.—Gross farm income comprises cash receipts from farm marketings of crops and livestock, Federal government payments made directly to farmers for farm-related activities, rental value of farm homes, value of farm products consumed in farm homes, and other farm-related income such as machine hire and custom work. Farm marketings represent agricultural products sold by farmers multiplied by prices received per unit of production at the local market.

Information on prices received for farm products is generally obtained by the NASS Agricultural Statistics Board from surveys of firms (such as grain elevators, packers, and processors) purchasing agricultural commodities directly from producers. In some cases, the price information is obtained directly from the producers.

Crops.—Estimates of crop acreage and production by the NASS are based on current sample survey data obtained from individual producers and objective yield counts, reports of carlot shipments, market records, personal field observations by field statisticians, and reports from other sources. Cotton acreage and production are based on sample survey data and on ginning information gathered by the Bureau of the Census.

Prices received by farmers are marketing year averages. These averages are based on U.S. monthly prices weighted by monthly marketings during specific periods. U.S. monthly prices are State average prices weighted by marketings during the month. Marketing year average prices do not include allowances for outstanding loans, government purchases, deficiency payments or disaster payments.

All State prices are based on individual State marketing years, while U.S. marketing year averages are based on standard marketing years for each crop. For a listing of the crop marketing years and the participating States in the monthly program, see *Crop Values*, January 1988. Value of production is computed by multiplying State prices by each State's production. The U.S. value of production is the sum of State values for all States. Value of production figures shown in tables 1121 and 1124-1132 should not be confused with cash receipts from farm marketings which relate to sales during a calendar year, irrespective of the year of production.

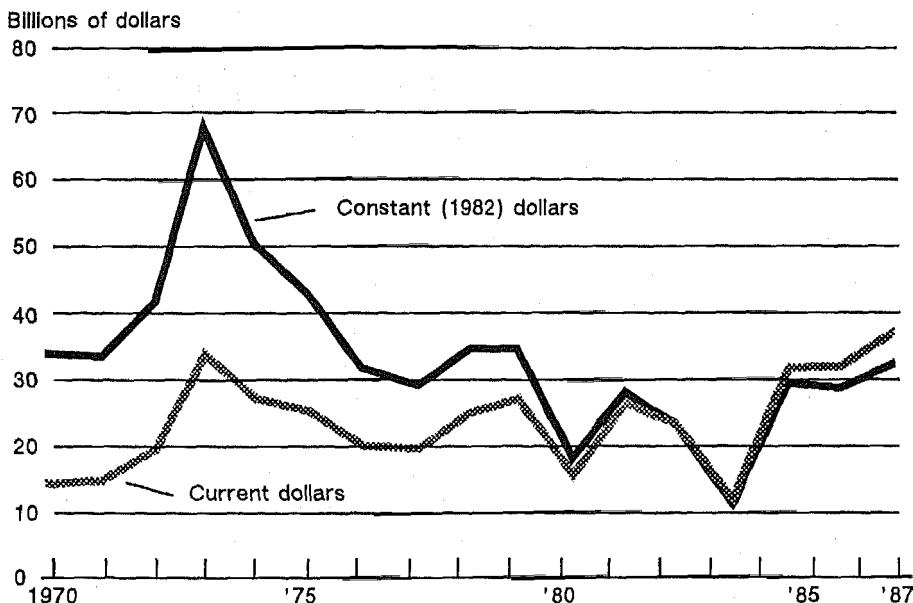
Price supports.—Agricultural income is supplemented through two basic Government-support mechanisms available to producers of eligible commodities: (1) a *market price support* (loan rate) through which producers may place any portion of their production in approved storage and receive a loan at a specified rate. The farmer may repay the loan with interest and retain the commodity or, at the end of the loan period, forfeit the commodity as full payment of the loan; (2) a *farm income support* (target price) whose payments vary inversely with the market price of the specified commodity. "Deficiency payments" are made when market prices for a specified period are below the target prices. The payment rate is the difference between the target price and market price, or between the target price and loan rate, whichever is smaller.

Livestock.—Annual inventory numbers of livestock and estimates of livestock, dairy, and poultry production prepared by the Department of Agriculture are based on information from farmers and ranchers obtained by probability survey sampling methods.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability pertaining to Census Bureau and Department of Agriculture data, see Appendix III.

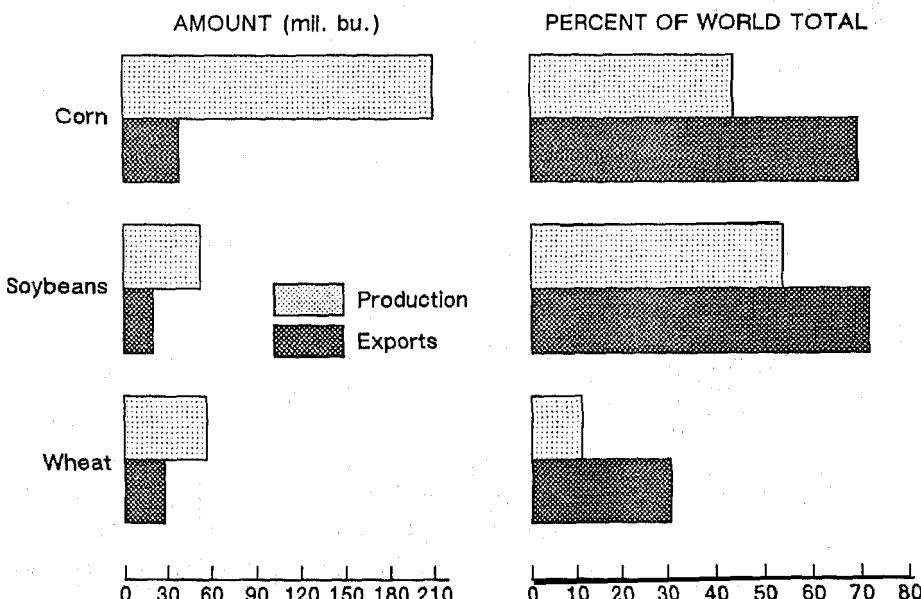
Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

Figure 23.1

Net Income of Farm Operators From Farming: 1970 to 1987

Source: Chart prepared by U.S. Bureau of the Census. For data see table 1095.

Figure 23.2

Corn, Soybeans, and Wheat--U.S. Production and Exports: 1986

Source: Chart prepared by U.S. Bureau of the Census. For data see table 1115.

NO. 1074. FOOD AND FIBER SECTOR OF DOMESTIC ECONOMY—EMPLOYMENT AND VALUE ADDED: 1975 TO 1987

[Employment in millions; value added in billions of dollars, except as indicated]

SECTOR	1975	1978	1980	1981	1982	1983	1984	1985	1986	1987
EMPLOYMENT										
Food and fiber sector, total	20.2	21.3	21.4	21.6	21.8	21.4	21.4	21.0	20.2	20.1
Percent of domestic economy	21.5	20.3	20.0	19.9	19.8	19.2	18.8	18.2	17.1	16.7
Farm sector	3.0	2.7	2.6	2.7	2.6	2.8	2.7	2.3	2.0	2.0
Nonfarm sector	17.2	18.7	18.9	19.0	19.2	18.7	18.7	18.7	18.2	18.1
Food processing	1.5	1.5	1.5	1.5	1.6	1.5	1.4	1.5	1.4	1.3
Manufacturing	3.2	3.3	3.4	3.4	3.3	3.1	3.0	2.9	2.7	2.7
Transportation, trade, and retailing	5.7	6.3	6.4	6.5	6.6	6.5	6.6	6.7	6.6	6.6
Eating establishments	3.1	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.7
Other	3.7	4.0	4.0	4.1	4.2	4.0	4.1	4.1	3.9	3.9
VALUE ADDED²										
Food and fiber sector, total	325.7	465.4	499.9	562.3	611.3	602.6	660.4	699.4	894.0	705.2
Percent of domestic economy	20.4	18.6	18.3	18.4	17.7	17.5	17.4	16.4	15.6	15.6
Farm sector	43.3	59.4	55.1	67.3	75.1	49.7	64.5	71.6	58.8	55.8
Nonfarm sector	282.4	406.0	448.8	495.0	538.2	552.9	595.9	627.8	635.2	649.4
Food processing	36.7	49.7	56.0	61.7	70.0	70.4	75.6	83.8	83.8	81.5
Manufacturing	57.0	77.1	83.0	93.1	97.5	98.0	101.5	102.3	102.7	100.5
Transportation, trade, and retailing	96.8	142.7	157.6	188.3	196.8	209.7	220.9	223.9	230.5	230.5
Eating establishments	25.7	38.9	42.0	44.6	48.1	52.0	55.7	57.5	58.4	54.9
Other	84.2	97.6	106.3	120.0	132.5	135.7	153.4	163.3	164.4	172.0

¹ Based on civilian labor force. ² Value added equals profits, rent, interest, wages, indirect business taxes, and depreciation.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Farm Sector Review*, annual.

NO. 1075. FARM POPULATION AND EMPLOYMENT: 1960 TO 1987

[In thousands, except percent. For definition of farm population, see text, section 23. See also *Historical Statistics, Colonial Times to 1970*, series C 76 and K 1-2 and K 174-176]

ITEM	1960	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Farm population (1974 definition) ¹	(NA)	(NA)	(NA)	6,241	6,051	5,850	5,628	5,787	5,754	5,355	5,226	4,985
Percent of resident population	(NA)	(NA)	(NA)	2.8	2.7	2.6	2.4	2.5	2.4	2.2	2.2	2.0
Farm population (1969 definition) ¹	15,635	9,712	8,864	7,553	7,241	7,014	6,880	7,029	(NA)	(NA)	(NA)	(NA)
Percent of resident population	8.7	4.8	4.2	3.4	3.3	3.1	3.0	3.0	(NA)	(NA)	(NA)	(NA)
Farm employment, total ²	7,057	4,523	4,342	3,774	3,705	3,330	4,043	3,749	3,405	3,115	2,812	2,887
Family member ³	5,172	3,348	3,025	2,501	2,402	2,236	2,494	2,271	2,175	2,017	1,873	1,846
Hired workers ⁴	1,885	1,175	1,317	1,273	1,303	1,094	1,549	1,478	1,230	1,098	1,039	1,051

NA, Not available. ¹ April-centered five-quarter averages for 1960 to 1983; annual average for 1984 to 1987.

² 1960 and 1970, averages of monthly estimates of employed during last full calendar week ending at least one day before end of month; 1975-1980 annual quarterly averages; 1981, average based on employment data from Jan. and April quarterly surveys; 1982-1983 based on July survey; 1984, average from July and Oct. surveys; 1985-1987 average from April, July and Oct. surveys.

³ Includes farm operators doing 1 or more hours of farm work and unpaid family members doing 15 or more hours of farm work during survey week. ⁴ Includes all persons doing 1 or more hours of farm work for pay during survey week. Members of operators' families doing any farm work for cash wages are counted as hired workers.

Source: Population—U.S. Dept. of Agriculture, Economic Research Service and U.S. Bureau of the Census. Published in U.S. Bureau of the Census, *Current Population Reports*, series P-27, No. 61 and earlier reports. Farm employment—U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Farm Labor*, periodic.

NO. 1076. CHARACTERISTICS OF FARM AND NONFARM FAMILIES: 1970 TO 1987

[As of March, 1970 based on 1969 census farm definition and 1980 and 1987 based on 1974 definition; see text, section 23. 1970, 1980 and 1987 data are based on population controls from 1960, 1970, and 1980 censuses respectively; see text, section 1. Based on Current Population Survey, see text, section 1 and Appendix III. For definition of median, see Guide to Tabular Presentation.]

CHARACTERISTIC	1970			1980			1987		
	Total	Farm	Nonfarm	Total	Farm	Nonfarm	Total	Farm	Nonfarm
Total families (1,000)	51,237	2,457	48,781	58,426	1,686	56,780	64,491	1,448	63,043
Persons per family	3.62	3.77	3.61	3.28	3.35	3.27	3.19	3.28	3.18
With own children under 18 (1,000)	28,665	1,169	27,496	30,517	745	29,772	31,898	596	31,301
Mean number of own children	2.33	2.61	2.32	1.88	2.00	1.89	1.81	2.00	1.81
Percent with: 1 or 2 children	63.6	57.2	63.9	77.0	71.5	77.2	80.4	73.0	80.6
3 or 4 children	26.5	29.3	26.5	20.4	24.8	20.3	17.9	24.5	17.8
5 or more children	7.8	13.5	7.6	2.5	3.5	2.5	1.6	2.5	1.6
Percent distribution:									
Married couple	86.7	90.5	86.5	82.5	92.3	82.2	79.9	93.8	79.8
Male householder, no wife present	2.4	4.2	2.3	2.9	3.4	2.9	3.8	2.1	3.8
Female householder, no husband present	10.9	5.3	11.2	14.6	4.4	14.9	16.2	4.4	16.5
2-person families	34.5	37.0	34.3	39.2	42.7	39.1	40.8	42.2	40.8
3-to-5 person families	52.7	46.4	53.1	53.7	47.1	53.9	54.1	50.8	54.2
6-or-more person families	12.9	16.6	12.6	7.1	10.3	7.0	5.0	6.9	5.0
Median family income ¹ in constant (1986) dollars	28,213	19,097	28,629	29,700	24,709	29,841	29,458	23,326	29,632

¹ Income for previous year.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 21B; series P-27, No. 61 and earlier reports; series P-60, No. 157 and earlier reports; and unpublished data.

Farm Population—Farms and Acreage

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No. 1077. FARM POPULATION, BY CHARACTERISTICS: 1970 TO 1987

[1970 and 1980, April-centered five-quarter averages; 1985 and 1987 annual averages. For definition of farm population, see text, section 23]

CHARACTERISTIC	FARM POPULATION (1,000)							PERCENT DISTRIBUTION				
	1969 definition		1974 definition					1969 definition, 1970	1974 definition			
	1970	1980	1980	1985	1987				1980	1985	1987	
					Total	Male	Female					
Total	9,712	7,241	6,051	5,355	4,986	2,598	2,387	100.0	100.0	100.0	100.0	
White.....	8,775	6,828	5,714	5,195	4,834	2,522	2,312	90.4	94.4	97.0	97.0	
Black and other races.....	938	413	337	160	152	76	75	9.7	5.6	3.0	3.0	
Under 15 years old.....	1,2490	1,391	1,146	1,100	974	511	463	125.6	118.9	20.5	19.5	
15 years old and over.....	2,7222	2,5851	2,4905	4,255	4,012	2,087	1,924	274.4	281.1	79.5	80.5	
15-19 years old.....	3,1316	3,926	3,790	456	427	216	211	3 13.6	3 13.1	8.5	8.6	
20-24 years old.....	502	444	381	315	174	141	141	5.2	7.3	7.1	6.3	
25-34 years old.....	770	735	606	640	620	333	287	7.9	10.0	12.0	12.4	
35-44 years old.....	1,061	862	712	687	626	327	299	10.9	11.8	12.8	12.6	
45-64 years old.....	2,452	1,892	1,607	1,342	1,319	667	653	25.2	26.6	25.1	26.4	
65 years old and over.....	1,122	934	746	747	702	370	332	11.6	12.3	13.9	14.1	
In labor force ⁴	4,293	3,682	3,139	2,853	2,783	1,720	1,043	59.4	64.0	67.1	68.8	
Employed, agriculture.....	2,333	1,722	1,642	1,363	1,297	1,029	988	32.3	33.5	32.0	32.3	
Percent of labor force.....	54.3	46.8	52.3	47.8	46.9	59.8	25.7	(X)	(X)	(X)	(X)	
Self-employed.....	1,411	1,083	1,034	896	848	716	132	19.5	21.1	21.1	21.1	
Wage and salary workers.....	395	344	326	318	330	267	63	5.5	6.6	7.5	8.2	
Unpaid family workers.....	526	295	282	149	118	46	72	7.3	5.7	3.5	2.9	
Employed, nonagriculture.....	1,878	1,853	1,415	1,402	1,387	650	737	26.0	26.8	32.9	34.6	
Self-employed.....	159	210	161	159	161	92	69	2.2	3.3	3.7	4.0	
Wage and salary workers.....	1,698	1,624	1,239	1,237	1,216	556	680	23.5	25.3	29.1	30.3	
Unpaid family workers.....	21	19	16	7	10	2	8	.3	.3	.2	.2	
Unemployed.....	82	106	82	88	79	41	37	1.1	1.7	2.1	2.0	
Not in labor force ⁴	2,929	2,169	1,768	1,402	1,249	367	882	40.6	36.0	32.9	31.1	

X Not applicable. ¹ Persons under 14 years old.

² Persons 14 years old and over.

³ Persons 14-19 years old.

⁴ Percent distribution by labor force status based on population, 14 years old and over through 1980; thereafter, 15 years old and over.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-27, No. 61 and earlier reports; and unpublished data.

No. 1078. FARMS—NUMBER AND ACREAGE: 1959 TO 1988

[Based on census year definition indicated; for definition of farms and farmland, see text, section 23. Data for census years (indicated by italics) have been adjusted for underenumeration and are used as reference points along with data from acreage and live-stock surveys in estimating data for other years. Minus sign (—) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series K 4-7.]

YEAR	FARMS		LAND IN FARMS	YEAR	FARMS		LAND IN FARMS		
	Num- ber (1,000)	Annual change ¹ (1,000)	Total (mil. acres)		Aver- age per farm (acres)	Num- ber (1,000)	Annual change ¹ (1,000)	Total (mil. acres)	Aver- age per farm (acres)
1969 DEFINITION									
1959.....	4,105	-139	1,183	288		2,521	(X)	1,059	420
1960.....	3,983	-142	1,176	297		2,497	-24	1,054	422
1964.....	3,457	-127	1,146	332		2,456	-41	1,048	427
1965.....	3,356	-101	1,140	340		2,436	-20	1,045	429
1969.....	3,000	-89	1,108	369		2,432	-4	1,042	428
1970.....	2,949	-51	1,102	374		2,433	1	1,039	427
1971.....	2,902	-47	1,087	378		2,434	1	1,034	425
1972.....	2,860	-42	1,092	382		2,401	-33	1,028	428
1973.....	2,823	-37	1,088	385		2,370	-31	1,024	432
1974.....	2,795 ²	-28	1,084	388		2,328	-42	1,018	438
1975.....	2,767	-28	1,081	391		2,275	-53	1,014	446
1976.....	2,738	-29	1,078	394		2,212	-63	1,008	456
1977.....	2,706	-32	1,075	397		2,176	-36	1,003	461
1978.....	2,672	-34	1,072	401		2,159	-17	998	463
1974 DEFINITION									
1975.....									
1976.....									
1977.....									
1978.....									
1979.....									
1980.....									
1981.....									
1982.....									
1983.....									
1984.....									
1985.....									
1986.....									
1987.....									
1988, prel.....									

X Not applicable. ¹ Average annual change from preceding year shown. For 1959, change from 1954.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Number of Farms and Land in Farms, 1959-70* (Statistical Bulletin No. 507); *Farms and Land in Farms, 1969-75* (Statistical Bulletin No. 594); *Farm Numbers, 1975-80*; and *Crop Production* (August releases).

Agriculture

No. 1079. FARMS—NUMBER AND ACREAGE, BY STATE: 1980 AND 1988

[1988 data preliminary. Based on 1974 census definition of farms and farmland; see text, section 23. See also *Historical Statistics, Colonial Times to 1970*, series K 4-7]

STATE	FARMS (1,000)		ACREAGE (mil.)		ACREAGE PER FARM		STATE	FARMS (1,000)		ACREAGE (mil.)		ACREAGE PER FARM	
	1980	1988	1980	1988	1980	1988		1980	1988	1980	1988	1980	1988
U.S.	2,433	2,159	1,039	999	427	463	Missouri	120	113	31	30	261	9
Alabama	59	49	12	11	207	224	Montana	24	23	62	61	2,601	2,605
Alaska	(2)	1	2	1	3,378	2,123	Nebraska	65	55	46	47	734	856
Arizona	8	8	38	37	5,080	4,506	Nevada	3	2	9	9	3,100	3,657
Arkansas	59	47	17	15	280	319	New Hampshire	3	3	1	1	160	158
California	81	78	34	33	417	417	New Jersey	9	7	1	1	103	112
Colorado	27	27	36	34	1,358	1,234	New Mexico	14	14	47	45	3,467	3,333
Connecticut	4	4	(2)	(2)	117	119	New York	47	40	9	9	200	213
Delaware	4	3	1	1	186	197	North Carolina	93	70	12	11	126	150
Florida	39	40	13	13	344	325	North Dakota	40	33	42	40	1,043	1,243
Georgia	59	49	15	13	254	265	Ohio	95	84	16	16	171	186
Hawaii	4	4	2	2	458	443	Oklahoma	72	69	35	33	481	478
Idaho	24	23	15	14	623	608	Oregon	35	37	18	18	517	488
Illinois	107	83	29	29	269	345	Pennsylvania	62	56	9	8	145	150
Indiana	87	72	17	16	193	228	Rhode Island	1	(2)	(2)	(2)	87	96
Iowa	119	107	34	34	284	313	South Carolina	34	27	6	5	188	200
Kansas	75	69	48	48	644	694	South Dakota	39	35	45	44	1,169	1,278
Kentucky	102	99	15	15	143	146	Tennessee	96	94	14	13	142	136
Louisiana	37	35	10	10	273	271	Texas	189	156	138	132	731	846
Maine	8	8	2	2	185	192	Utah	14	13	12	11	919	850
Maryland	18	16	3	2	157	147	Vermont	8	7	2	2	226	223
Massachusetts	6	6	1	1	116	111	Virginia	58	49	10	10	169	196
Michigan	65	58	11	11	175	193	Washington	38	38	16	16	429	421
Minnesota	104	94	30	30	251	319	West Virginia	22	21	4	4	191	176
Mississippi	55	43	15	14	265	314	Wisconsin	93	82	19	18	200	215
							Wyoming	9	9	35	35	3,846	4,000

Z Less than 500 farms or 50,000 acres.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production* (August 1988 release).

NO. 1080. FARMS—NUMBER AND ACREAGE, BY STATE: 1982

[For composition of regions, see fig. I, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series K 17-18]

REGION, DIVISION, AND STATE	ALL FARMS			FARMS WITH SALES OF \$10,000 OR MORE			DIVISION AND STATE	ALL FARMS			FARMS WITH SALES OF \$10,000 OR MORE		
	Number of farms (1,000)	Land in farms (mil. acres)	Aver- age size of farm (acres)	Number of farms (1,000)	Land in farms (mil. acres)	Aver- age size of farm (acres)		Number of farms (1,000)	Land in farms (mil. acres)	Aver- age size of farm (acres)	Number of farms (1,000)	Land in farms (mil. acres)	Aver- age size of farm (acres)
U.S.	2,241	986.6	440	1,143	811.3	710	S.A.	274	57.2	209	109	41.9	385
Region:							DE.	3	.7	196	2	.6	275
Northeast	131	23.0	175	65	17.0	260	MD.	16	2.6	158	8	2.1	257
Midwest	932	354.2	380	612	317.6	519	VA.	52	9.4	182	18	6.3	350
South	898	293.8	328	331	229.3	694	WV.	19	3.6	190	3	1.2	442
West	280	315.7	1,129	135	247.3	1,837	NC.	73	10.3	142	33	7.7	232
N.E.	26	4.8	178	12	3.1	268	SC.	25	5.6	224	9	3.8	461
ME	7	1.5	210	3	.9	327	GA.	50	12.3	248	21	9.3	434
NH	3	.5	170	1	.2	273	FL.	36	12.8	353	15	10.8	733
VT	6	1.6	249	4	1.2	336	E.S.C.	283	49.2	174	96	33.4	347
MA	5	.6	113	2	.4	164	KY.	102	14.2	140	42	10.0	238
RI	1	.1	86	(2)	(2)	117	TN.	91	12.5	138	25	7.7	302
CT	4	.4	118	2	.3	187	AL.	48	10.2	211	15	6.7	444
M.A.	106	18.4	174	54	13.9	259	MS.	42	12.4	293	14	9.0	660
NY	42	9.2	218	23	7.3	318	W.S.C.	340	187.3	551	125	154.0	1,227
N.J.	8	.9	111	4	.7	195	AR.	51	14.7	291	21	11.0	528
PA.	56	8.3	149	27	5.9	217	LA.	32	8.9	282	11	7.1	625
E.N.C.	403	88.6	220	245	77.9	318	OK.	73	32.4	446	29	25.7	873
OH	87	15.4	177	44	12.3	282	TX.	185	131.3	710	64	110.1	1,727
IN	77	16.3	211	45	14.5	324	Mt.	122	246.1	1,857	66	187.9	2,852
IL	98	28.7	292	71	27.2	384	MT.	24	60.5	2,568	15	53.4	3,453
MI	59	10.9	187	28	8.7	307	ID.	25	13.9	563	15	11.7	801
WI	82	17.2	210	57	15.1	265	WY.	9	33.5	3,781	5	28.0	5,212
W.N.C.	529	265.6	502	368	250.0	374	CO.	27	33.5	1,237	15	29.1	1,939
MN.	94	27.7	294	67	22.3	435	NM.	13	47.1	3,493	5	34.9	6,715
IA	115	32.6	283	94	31.4	336	AZ.	7	37.8	5,148	3	35.2	4,851
MO.	112	29.3	260	51	22.3	435	UT.	14	9.8	699	6	7.3	1,281
ND.	36	40.2	1,104	30	37.3	1,247	NV.	3	10.0	3,671	1	8.2	6,087
SD.	37	43.8	1,179	29	37.0	1,259	Pac.	158	69.6	441	69	59.4	864
NE.	60	45.0	746	49	43.0	882	WA.	36	16.5	456	16	13.0	833
KS.	73	47.1	642	48	43.7	912	OR.	34	17.7	520	12	15.5	1,316

Z Less than 500 farms or \$0,000 acres.

Source: U.S. Bureau of the Census, *Census of Agriculture: 1982*, vol. 1.

Farms—Farm Operators

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NO. 1081. FARMS—NUMBER, 1959 TO 1982, AND ACREAGE, 1978 AND 1982, BY SIZE OF FARM

[See also *Historical Statistics, Colonial Times to 1970*, series K 162-173]

SIZE OF FARM	NUMBER OF FARMS (1,000)				LAND IN FARMS (mil. acres)		CROPLAND HARVESTED (mil. acres)		PERCENT DISTRIBUTION, 1982			
	1959	1969	1974	1978	1982	1978	1982	1978	1982	Number of farms	All land in farms	Crop-land harvested
Total	3,711	2,730	2,314	2,258	2,241	1,014.8	986.8	317.1	326.3	100.0	100.0	100.0
Under 10 acres	244	162	128	151	188	.6	.2	.3	.4	.1	.1	.1
10-49 acres	813	473	380	392	449	10.9	12.1	4.5	4.5	20.0	1.2	1.4
50-99 acres	658	460	385	356	344	25.9	24.8	10.2	9.5	15.4	2.5	2.9
100-179 acres	773	542	443	403	368	55.0	49.9	23.3	21.2	16.4	5.1	6.5
180-259 acres	414	307	253	294	211	50.6	45.7	23.7	21.7	9.4	4.8	6.7
260-499 acres	472	419	363	348	315	124.6	113.0	64.5	60.5	14.1	11.5	19.5
500-999 acres	200	216	207	213	204	146.7	140.5	75.2	77.6	9.1	14.2	23.8
1,000-1,999 acres	79	91	93	98	97	133.0	132.4	58.2	64.5	4.3	13.4	19.8
2,000 acres and over	57	60	62	63	65	467.4	467.5	57.3	66.6	2.9	47.4	20.4

Source: U.S. Bureau of the Census, *Census of Agriculture: 1959, 1969, 1974, 1982*, vol. II and 1982, vol. 1.

NO. 1082. FARMS—NUMBER AND ACREAGE, BY TENURE OF OPERATOR: 1969 TO 1982

[Full owners own all the land they operate. Part owners own a part, and rent from others the rest of the land they operate. See also *Historical Statistics, Colonial Times to 1970*, series K 109-113 and 142-146]

ITEM AND YEAR	Unit	Total	Full owner	Part owner	Tenant	PERCENT DISTRIBUTION			
						Total	Full owner	Part owner	Tenant
Number of farms:									
1969		1,000				2,730	1,706	672	353
1974		1,000				2,314	1,424	628	262
1978		1,000				2,258	1,298	681	279
1982 ¹		1,000				2,241	1,326	656	259
Under 50 acres		1,000				637	505	68	63
50-179 acres		1,000				711	488	144	79
180-499 acres		1,000				528	232	221	73
500-999 acres		1,000				204	57	120	27
1,000 acres or more		1,000				161	41	103	17
Land in farms:									
1969	Mil. acres	1,063				375	550	138	100.0
1974	Mil. acres	1,017				359	535	122	100.0
1978	Mil. acres	1,015				332	561	122	100.0
1982	Mil. acres	987				342	531	114	100.0

¹ Data by size of farm exclude abnormal farms; see headnote, table 1084.

Source: U.S. Bureau of the Census, *Census of Agriculture: 1969, 1974, 1982*, vol. II, and 1982, vol. 1.

NO. 1083. FARM OPERATORS—TENURE AND CHARACTERISTICS: 1978 AND 1982

[In thousands, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series K 82-113]

TENURE AND CHARACTERISTIC	ALL FARMS		FARMS WITH SALES OF \$10,000 AND OVER		CHARACTERISTIC	ALL FARMS		FARMS WITH SALES OF \$10,000 AND OVER	
	1978	1982	1978	1982		1978	1982	1978	1982
Total operators	2,258	2,241	1,180	1,143	Principal occupation:				
White	2,200	2,187	1,163	1,127	Farming	1,269	1,235	934	901
Black and other	58	54	17	16	Other	988	1,006	246	242
Operators of Hispanic origin ¹	18	16	7	6	Place of residence: ²				
Female	113	122	(NA)	37	On farm operated	1,586	1,581	876	833
Under 25 years old	67	62	(NA)	39	Not on farm operated	422	429	197	202
26-34 years old	285	294	(NA)	173	Years on present farm: ²				
35-44 years old	434	443	(NA)	223	2 years or less	(NA)	127	(NA)	53
45-54 years old	549	505	(NA)	264	3-4 years	(NA)	193	(NA)	83
55-64 years old	552	536	(NA)	288	5-9 years	(NA)	360	(NA)	157
65 years old and over	371	400	(NA)	156	10 years or more	(NA)	1,098	(NA)	638
Average age (years)	50.3	50.5	(NA)	49.1	Days worked off farm: ²				
Full owner	1,298	1,326	485	482	None	943	862	654	591
Part owner	681	656	514	491	Less than 100 days	252	224	164	141
Tenant	279	259	181	170	100-199 days	181	198	79	77
					200 days or more	770	775	214	213

NA Not available. ¹ Operators of Hispanic origin may be of any race.

² Excludes not reported.

Source: U.S. Bureau of the Census, *1982 Census of Agriculture*, vol. 1.

NO. 1084. FARMS—NUMBER, ACREAGE, AND VALUE, BY TYPE OF ORGANIZATION: 1978 AND 1982

[Excludes abnormal farms (institutional farms, experimental and research farms, Indian reservations, etc.)]

ITEM	UNIT	TOTAL ¹	INDIVIDUAL OR FAMILY	PARTNERSHIP	CORPORATION	PERCENT DISTRIBUTION			
						TOTAL ¹	INDIVIDUAL OR FAMILY	PARTNERSHIP	CORPORATION
Number of farms: 1978.....	1,000.....	2,255	1,966	233	50	100.0	87.2	10.3	2.2
1982.....	1,000.....	2,239	1,946	223	60	100.0	86.9	10.0	2.7
Land in farms: 1978.....	MIL. ACRES.....	959	673	158	120	100.0	70.2	16.5	12.5
1982.....	MIL. ACRES.....	932	642	152	127	100.0	68.9	16.3	13.6
Value of land and buildings: ² 1978.....	BILL. DOL.	623	(NA)	(NA)	(NA)	100.0	(NA)	(NA)	(NA)
1982.....	BILL. DOL.	763	547	119	90	100.0	71.7	15.6	11.8
Value of farm products sold: 1978.....	MIL. DOL.	106,829	(NA)	(NA)	(NA)	100.0	(NA)	(NA)	(NA)
1982.....	MIL. DOL.	131,590	77,907	21,520	31,480	100.0	59.2	16.4	23.9

NA Not available. ¹ Includes other types, not shown separately.² Based on a sample of farms.Source: U.S. Bureau of the Census, 1982 *Census of Agriculture*, vol. 1.**NO. 1085. IRRIGATED FARMS AND ACREAGE—SELECTED STATES: 1984**

Based on a sample of irrigators selected from irrigated farms identified in the 1982 Census of Agriculture excluding all irrigators in 1982 in Alaska, Hawaii, and abnormal and horticultural specialty farms in the 48 conterminous States. (For definition of abnormal farms, see headnote, table 1084.) Most of the excluded irrigated farms were horticultural specialty farms and accounted for 889,645 acres irrigated or 1.8 percent of the land irrigated in 1982. No attempt was made to identify and select new irrigators for 1984. Irrigated land is defined as the acreage in farms to which water is artificially applied.

STATE	IRRIGATED FARMS (1,000)	ACRES IN FARMS (1,000)	ACRES IRRIGATED (1,000)	STATE	IRRIGATED FARMS (1,000)	ACRES IN FARMS (1,000)	ACRES IRRIGATED (1,000)
CONTERMINOUS U.S. ¹	212.4	175,134	44,731	Montana.....	7.9	16,769	1,877
California.....	48.3	17,292	7,805	Arkansas.....	4.8	4,439	1,872
Nebraska.....	19.2	19,321	5,828	Oregon.....	12.1	10,840	1,778
Texas.....	13.7	14,458	4,921	Wyoming.....	4.6	14,630	1,550
Idaho.....	15.5	7,117	3,255	Washington.....	13.1	4,097	1,482
Colorado.....	13.4	15,380	3,105	Florida.....	5.8	4,991	1,438
Kansas.....	6.2	8,935	2,315	Utah.....	10.0	3,787	1,054
				Arizona.....	3.4	4,729	893

¹ Includes other States not shown separately.Source: U.S. Bureau of the Census, 1984 *Farm and Ranch Irrigation Survey*, (AG84-SR-1), 1986.**NO. 1086. FOREIGN OWNERSHIP OF U.S. AGRICULTURAL LAND: 1987**

[In thousands of acres, except percent. Covers "foreign persons" reporting under the Agricultural Foreign Investment Disclosure Act of 1978. As defined in the Act, a "foreign person" is any person who is not a U.S. citizen and who is not a permanent resident alien of the U.S. Foreign governments and entities are also "foreign persons." Also, each successive link in a chain of U.S. entities containing foreign interests is considered a "foreign person." An entity is deemed a "foreign person" if it is 10 percent or more foreign owned by a single foreign person or foreign persons acting in concert, or 50 percent foreign owned by a group of foreign persons not acting in concert, none of whom individually holds a 10 percent or greater interest in the entity. Therefore acreage figures reported do not necessarily mean that they are wholly owned by foreign investors. Covers reports received and accepted as of December 31, 1987.]

CHARACTERISTIC	ACREAGE OWNED ¹		ACREAGE ACQUIRED ²		CHARACTERISTIC	ACREAGE OWNED ¹		ACREAGE ACQUIRED ²	
	Total	Percent	Total	Percent		Total	Percent	Total	Percent
Total³	12,535	100.0	325	100.0	Country of foreign owner:				
Type of owner:					Canada.....	1,452	11.8	75	23.1
Corporation.....	10,058	80.2	271	83.4	Japan.....	115	.9	2	.6
Partnership.....	1,292	10.3	34	10.5	Netherlands.....	141	1.1	1	.3
Individual.....	989	7.9	17	5.2	Netherlands Antilles....	486	3.9	—	—
Other.....	196	1.6	3	.9	Switzerland.....	247	2.0	19	5.8
Size of holding:					United Kingdom.....	284	2.3	7	2.2
Less than 100 acres....	128	1.0	2	.6	West Germany.....	717	5.7	23	7.1
100-299 acres.....	303	2.4	7	2.1	Through U.S. interest: ⁴				
300-999 acres.....	888	7.1	22	6.8	Canada.....	1,045	8.3	10	3.1
1,000 acres or more....	11,216	89.5	294	90.5	Japan.....	34	.3	4	1.2
Land use:					Netherlands.....	381	3.0	33	10.2
Cropland.....	2,115	16.9	67	20.6	Netherlands Antilles....	242	1.9	18	5.5
Pasture.....	2,981	23.6	125	38.5	Switzerland.....	244	1.9	4	1.2
Forest.....	6,294	50.2	103	31.7	United Kingdom.....	3,511	28.0	13	4.0
Other agriculture.....	550	4.4	16	4.9	West Germany.....	415	3.3	30	9.2
Other nonagriculture....	614	4.9	14	4.3					

¹ Represents or rounds to zero. Jan. 1-Dec. 31, 1987. ² Includes other countries not shown separately. ³ Landholdings by foreign interests as of Dec. 31. ⁴ Acquisitions by foreign interests from reports filed by U.S. corporations with foreign shareholders.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Ownership of U.S. Agricultural Land through December 31, 1987* (Economic Research Service Staff Report AGES 880314), 1988.

Farm Real Estate

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NO. 1087. FARM REAL ESTATE—SUMMARY: 1970 TO 1988

[1970 and 1975, value data as of Mar. 1; 1980-1981 and 1986-1988, as of Feb. 1; 1982-1985, as of April 1. Excludes Alaska and Hawaii. 1970 value data based on 1969 census definition of farms and farmland; beginning 1975, based on 1974 census definition, see text, section 23. Total value of land and buildings is estimated by multiplying the number of acres of farmland by the average value per acre of land and buildings. Average values are based on land-value data obtained from the census of agriculture. For intercensal years, estimates are made using indexes of average value per acre. Indexes of average value per acre are based on surveys conducted by the U.S. Dept. of Agriculture.]

ITEM	UNIT	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total value	Bil. dol.	215.0	358.6	763.3	843.7	843.3	804.8	793.9	686.2	597.6	546.2	563.3
Land	Bil. dol.	175.5	300.5	658.0	728.3	729.8	697.3	688.9	595.8	516.3	473.1	488.3
Buildings	Bil. dol.	39.5	58.1	105.3	115.4	113.5	107.5	105.0	90.4	79.4	73.1	75.0
Average value per acre ¹	Dollars	198	340	737	819	823	788	792	679	595	547	564
Index		1977=100	42	75	145	158	157	148	146	128	112	103
Average value, operating unit	\$1,000.	73.0	142.5	314.4	347.3	352.0	340.3	341.8	302.4	270.8	251.9	259.7

¹ Land and buildings.

Source: U.S. Dept. of Agriculture, Economic Research Service, 1970-1984, *Farm Real Estate Market Developments*, annual; thereafter, *Agricultural Land Values and Markets*, annual.

NO. 1088. FARM REAL ESTATE—VALUE OF LAND AND BUILDINGS, BY STATE: 1980 TO 1988

[See headnote, table 1087. See also *Historical Statistics, Colonial Times to 1970*, series K 18]

STATE	VALUE OF LAND AND BUILDINGS (mil. dol.)				AVERAGE VALUE OF LAND AND BUILDINGS, PER ACRE				INDEXES OF AVERAGE VALUE PER ACRE (1977=100)			
	1980	1985	1987	1988	1980	1985	1987	1988	1980	1985	1987	1988
U.S.	763,285	686,194	546,223	563,265	\$737	\$679	\$547	\$564	145	128	103	106
Alabama	9,516	8,844	8,039	8,042	780	769	731	731	149	154	146	146
Arizona	9,938	8,957	7,915	7,267	265	242	214	214	167	183	149	131
Arkansas	15,147	13,584	9,767	9,931	918	849	634	645	163	152	114	116
California	48,131	56,785	44,557	43,701	1,424	1,226	1,386	1,341	166	201	159	155
Colorado	13,932	14,964	12,370	12,386	387	435	364	364	147	154	129	129
Connecticut	1,170	1,540	1,785	2,162	2,387	3,208	4,058	4,914	3 135	3 185	234	283
Delaware	1,169	1,067	1,118	1,194	1,798	1,642	1,775	1,885	151	128	138	148
Florida	18,505	19,851	19,033	20,750	1,381	1,527	1,464	1,596	141	147	141	154
Georgia	13,440	11,678	11,003	11,241	896	865	846	865	132	116	113	115
Idaho	10,610	10,861	7,822	8,166	698	749	567	592	134	129	98	102
Illinois	58,781	37,712	29,752	31,850	2,041	1,314	1,040	1,114	135	84	67	72
Indiana	31,298	20,648	15,077	15,918	1,863	1,259	931	983	150	96	71	75
Iowa	62,192	35,750	25,061	29,803	1,840	1,064	748	890	139	77	54	64
Kansas	28,352	22,368	16,304	17,637	587	466	340	368	134	98	71	77
Kentucky	14,250	13,137	11,476	11,403	978	906	791	786	147	129	113	112
Louisiana	12,686	12,685	7,115	6,885	1,256	1,256	734	708	169	181	106	102
Maine	959	1,301	1,645	1,879	594	856	1,082	1,236	3 135	3 185	234	267
Maryland	6,154	5,452	4,394	4,834	2,238	2,097	1,831	2,014	168	158	138	152
Massachusetts	1,158	1,613	2,039	2,403	1,608	2,372	2,999	3,584	3 135	3 185	234	276
Michigan	12,685	11,993	9,416	9,639	1,111	1,052	833	853	138	121	96	98
Minnesota	32,906	25,019	14,799	16,889	1,066	823	493	683	154	109	66	75
Mississippi	11,957	11,774	9,023	9,080	819	835	654	657	156	163	128	129
Missouri	28,232	20,297	16,882	17,503	902	659	552	571	154	102	85	88
Montana	14,546	13,542	10,183	9,948	235	222	167	164	142	125	94	92
Nebraska	30,290	20,957	15,810	17,280	635	444	335	366	137	82	62	68
Nevada	2,230	2,015	1,858	1,698	248	229	211	193	178	179	180	146
New Hampshire	547	766	933	1,059	1,004	1,419	1,794	2,037	3 135	3 185	234	267
New Jersey	3,006	3,314	4,523	5,260	2,947	3,525	5,321	6,189	120	141	213	247
New Mexico	8,658	7,335	5,425	5,870	185	163	122	132	166	162	121	131
New York	6,788	7,353	8,009	8,223	720	808	931	956	119	128	148	152
North Carolina	14,262	13,414	11,840	11,471	1,219	1,242	1,096	1,062	141	142	125	121
North Dakota	16,886	14,724	11,419	11,846	405	360	282	292	136	116	91	95
Ohio	28,026	17,791	14,702	15,461	1,730	1,126	942	991	158	90	75	79
Oklahoma	21,244	18,678	14,130	13,893	614	566	428	421	143	126	95	93
Oregon	10,625	10,422	8,581	8,334	587	579	479	466	132	114	95	92
Pennsylvania	13,176	13,137	14,663	15,482	1,464	1,510	1,725	1,820	140	127	145	152
Rhode Island	186	243	308	455	2,523	3,335	4,217	6,240	3 135	3 185	234	346
South Carolina	5,760	4,944	4,126	4,546	900	899	794	874	130	121	107	118
South Dakota	13,140	11,125	7,941	8,333	292	250	178	187	141	101	72	76
Tennessee	13,274	13,159	12,747	13,814	976	982	1,012	1,104	136	127	131	143
Texas	60,255	88,346	64,153	62,113	436	652	482	466	144	239	169	164
Utah	6,572	5,962	5,132	4,840	530	514	454	428	169	165	146	137
Vermont	1,255	1,627	2,057	2,151	721	1,017	1,286	1,345	3 135	3 185	234	246
Virginia	10,074	10,474	10,667	10,972	1,028	1,091	1,111	1,143	139	140	143	147
Washington	11,997	14,880	11,422	11,038	736	923	699	624	151	118	114	114
West Virginia	2,810	1,994	1,949	2,004	669	554	527	542	150	143	136	140
Wisconsin	18,674	14,992	10,957	11,024	1,004	847	626	630	159	126	93	94
Wyoming	5,636	6,160	5,252	4,877	161	177	151	140	126	122	104	97

¹ Estimated by combining survey data to obtain an average rate of change for Arizona, Nevada, New Mexico, and Utah.

² Estimated using the average of the percentage changes in the Colorado, Idaho, and Montana indexes.

³ Estimated by combining survey data to obtain an average rate of change for New England States.

⁴ Estimated using the average of the percentage changes in the Alabama and Georgia indexes.

Source: U.S. Dept. of Agriculture, Economic Research Service, 1980, *Farm Real Estate Market Developments*, annual; beginning 1985, *Agricultural Land Values and Markets*, annual.

Agriculture

NO. 1089. BALANCE SHEET OF THE FARMING SECTOR: 1970 TO 1987

[In billions of dollars, except percent. As of December 31. Includes farm operator households. See *Historical Statistics, Colonial Times to 1970*, series K 204-219, for data before revisions]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS ¹					
	1970	1975	1980	1985	1986	1987	1970	1975	1980	1985	1986	1987
Assets	324.0	576.1	1,102.3	845.4	789.4	813.1	771.3	971.5	1,286.2	758.2	690.6	692.0
Physical assets:												
Real estate	223.8	420.6	850.8	608.4	554.0	567.2	532.8	709.3	992.8	543.8	484.7	482.7
Non-real estate	77.0	125.2	212.3	190.0	181.6	190.0	183.4	211.2	247.7	170.4	158.9	161.7
Livestock and poultry ²	23.7	29.4	60.6	46.3	47.6	57.6	58.4	49.6	70.8	41.5	41.7	49.0
Machinery, motor vehicles	34.4	63.1	89.3	92.4	84.4	78.6	81.8	106.4	115.9	82.9	73.8	66.9
Crops stored	9.0	21.1	33.0	23.5	19.1	20.5	21.3	35.5	38.5	21.0	16.7	17.5
Household furnishings, equipment	10.0	11.7	19.4	27.8	30.5	33.3	23.7	19.7	22.6	25.0	26.6	28.3
Financial assets	23.2	30.3	39.1	49.0	53.8	55.9	55.2	51.1	45.7	43.9	47.0	47.8
Deposits and currency	12.4	14.5	16.2	21.1	24.8	26.4	29.6	24.5	18.9	18.9	21.7	22.5
Savings bonds	3.6	3.9	3.8	3.9	4.5	5.0	8.5	6.5	4.4	3.5	4.0	4.2
Investment in cooperatives	7.2	11.8	19.2	24.0	24.4	24.5	17.0	20.0	22.4	21.5	21.3	20.8
Claims	324.0	576.1	1,102.3	845.4	789.4	813.1	771.3	971.5	1,286.2	758.2	690.6	692.0
Debt												
Real estate debt	52.8	91.5	178.7	188.0	186.8	153.3	125.6	154.2	208.5	168.8	145.9	130.5
Non-real estate debt	30.5	49.9	97.5	105.9	95.8	87.4	72.6	84.1	113.8	94.9	83.8	74.4
Equity	271.2	484.6	923.6	657.3	622.6	659.8	645.7	817.2	1,077.8	589.5	544.7	581.5

¹ Constant dollar figures are based on gross national product implicit price deflators for year. ² Excludes horses and mules.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary, 1987*, and unpublished data.

NO. 1090. FARM DEBT OUTSTANDING, BY TYPE OF LENDER: 1970 TO 1987

[In billions of dollars, except percent. As of December 31. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series K 361-367 and K 376-380]

LENDER	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Farm debt, total	52.8	91.5	138.6	162.5	178.7	195.4	203.1	206.5	204.4	188.0	186.8	153.3
Annual percent change ¹	6.1	11.6	14.9	19.0	10.0	8.3	3.9	1.7	-1.0	8.0	-11.3	-8.1
Farm debt/asset ratio (percent)	16.3	15.9	15.7	16.1	16.2	17.7	19.0	18.7	21.5	22.2	21.1	18.9
Real estate debt	30.5	49.9	72.8	86.8	97.5	107.2	111.3	113.7	112.4	105.9	85.8	87.4
Federal land banks	7.1	16.0	24.8	29.8	36.2	43.8	47.8	48.9	49.2	44.7	37.7	32.3
Life insurance companies	5.6	6.7	10.5	12.2	12.9	13.1	12.8	12.7	12.4	11.8	10.9	9.9
Commercial and savings banks	3.8	5.3	8.8	8.6	8.6	8.3	8.4	9.3	10.2	11.4	12.7	14.5
Farmers Home Administration ²	2.4	3.4	4.1	6.9	8.2	8.9	8.2	9.5	10.1	10.4	10.3	10.1
Individuals and others ³	11.4	17.3	23.6	27.9	30.2	31.8	32.0	32.3	29.9	27.2	24.0	20.6
CCC ⁴ storage and drying facilities loans	.1	.2	1.1	1.4	1.5	1.3	1.1	.9	.6	.3	.1	-
Non-real estate debt	22.3	41.6	63.8	75.7	81.2	88.2	91.8	92.7	92.0	82.2	71.0	65.9
Commercial and savings banks	11.1	20.2	28.3	31.0	31.6	32.9	36.1	39.0	39.6	35.5	31.2	29.0
Production credit associations ⁵	5.5	11.1	15.5	18.8	20.5	22.1	21.4	20.2	18.8	14.6	11.3	9.7
Farmers Home Administration	.8	1.8	5.8	9.3	11.4	14.4	14.7	14.6	15.6	16.7	16.4	16.0
Individuals and others ⁴	4.9	8.6	14.3	16.6	17.7	18.8	19.5	18.9	18.0	15.4	12.4	11.1

¹ Represents zero. ² Annual change from prior year shown; for 1970, change from 1965. For explanation of annual percent change, see Guide to Tabular Presentation. ³ Includes direct and insured farm ownership, farm housing, soil and water and recreation loans secured by farm real estate. ⁴ Includes seller and other individual financing of farm real estate sales and unclassified credit sources. ⁵ Commodity Credit Corporation. ⁶ Also includes Federal Intermediate credit bank loans to financial groups other than production credit associations, ⁷ Includes merchants and dealers, individuals, Small Business Administration, and all other unclassified credit sources.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary, 1987*.

Farm Debt—Financial Stress—Cash Income and Flow

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NO. 1091. FARMS AND FARM DEBT—PERCENTAGE DISTRIBUTION BY DEBT/ASSET RATIO: 1988

[As of January 1. A farm is a crop or livestock farm if 50 percent or more of its commodity receipts derive from the sale of crop or animal products, respectively. A crop or livestock farm is further categorized as a particular type if 50 percent of its crop or, if applicable, livestock receipts come from a specific commodity area. Based on Farm Costs and Returns Survey conducted in February–March 1988 for the 1987 calendar year]

VALUE OF SALES AND TYPE OF FARM	FARMS—PERCENT DISTRIBUTION BY DEBT/ASSET RATIO				FARM OPERATOR DEBT—PERCENT DISTRIBUTION BY DEBT/ASSET RATIO			
	Total	Less than 40 percent	40–70 percent	Over 70 percent	Total	Less than 40 percent	40–70 percent	Over 70 percent
All farms.....	100.0	85.0	10.0	5.0	100.0	45.1	31.4	23.5
Less than \$10,000.....	100.0	90.3	7.0	2.7	100.0	54.0	30.0	16.0
\$10,000–\$19,999.....	100.0	89.9	7.1	3.0	100.0	57.2	27.3	15.5
\$20,000–\$39,999.....	100.0	86.9	7.8	5.3	100.0	53.2	23.5	23.3
\$40,000–\$99,999.....	100.0	78.7	13.1	8.2	100.0	42.5	28.2	28.3
\$100,000–\$249,999.....	100.0	73.5	18.1	8.4	100.0	41.8	36.3	22.1
\$250,000–\$499,999.....	100.0	73.3	17.7	9.0	100.0	44.3	35.0	20.7
\$500,000 and over.....	100.0	70.7	18.4	10.9	100.0	41.9	26.8	29.5
Cash grain.....	100.0	79.7	12.8	8.0	100.0	41.6	34.0	24.4
Cotton, tobacco.....	100.0	84.4	10.4	5.2	100.0	52.0	25.3	22.7
Other field crops.....	100.0	82.5	9.4	8.1	100.0	40.9	31.3	27.8
Vegetable, fruit, and nut.....	100.0	87.6	7.4	5.0	100.0	38.3	23.3	38.4
Nursery, greenhouse.....	100.0	91.5	7.7	.8	100.0	65.1	28.0	2.9
General livestock.....	100.0	89.8	7.5	2.7	100.0	49.8	30.0	20.2
Dairy.....	100.0	75.0	17.7	7.3	100.0	42.6	34.7	22.6
Poultry and egg.....	100.0	78.0	16.0	6.0	100.0	47.7	39.5	12.8
Other livestock.....	100.0	87.6	8.9	3.5	100.0	53.0	24.7	22.3

Source: U.S. Dept. of Agriculture, Economic Research Service, *Financial Characteristics of U.S. Farms*, January 1, 1988 (AIB No. 551), 1988.

NO. 1092. INDICATORS OF FINANCIAL STRESS IN AGRICULTURE, 1980 TO 1987, AND BY FARM REGION, 1987

[In percent. For years ending in June, except as noted. Based on a survey of approximately 1,000 bankers which reflects their perception of farm financial conditions in their lending areas]

FINANCIAL STRESS INDICATOR	1980	1984	1985	1986	1987					
					Total	North-east ¹	Corn Belt ²	South ³	Plains ⁴	West ⁵
Average delinquency rate ⁶	(NA)	4.4	5.3	6.0	2.7	2.9	2.3	3.0	2.9	3.2
Farm borrowers who had bank financing discontinued.....	4.5	3.4	4.5	5.6	3.3	3.4	2.9	5.0	3.2	3.5
Farm borrowers loaned-up to practical limit ⁷	27	33	37	39	29	28	25	38	30	35
Farmers in bank lending area who went out of business.....	2.1	3.6	4.8	6.2	4.6	5.5	4.1	6.5	4.2	3.8
Farmers in bank lending area who went through bankruptcy.....	(NA)	2.6	3.8	4.2	3.3	3.3	3.4	5.6	2.6	3.0

NA Not available. ¹ ME, NH, VT, MA, RI, CT, NY, NJ, PA, DE, MD, DC, MI, WI, and MN. ² OH, IN, IL, IA, and MO. ³ VA, WV, NC, SC, GA, FL, KY, TN, AL, MS, AR, and LA. ⁴ ND, SD, NE, KS, OK, and TX. ⁵ MT, ID, WY, CO, NM, AZ, UT, NV, WA, OR, CA, AK, and HI. ⁶ Percentage of dollar farm loan volume 30 days or more delinquent. ⁷ As of June of year shown. ⁸ Farm customers who have reached their maximum debt load.

Source: American Bankers Association, Washington, DC, *Agricultural Banker*, selected issues.

NO. 1093. NET CASH INCOME AND NET CASH FLOW FROM FARMING: 1970 TO 1987

[In billions of dollars. Net cash income is for farm operators from their farming operation and net cash flow is for the agricultural sector. Minus sign (–) indicates net loan redemption or decrease]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Net cash income.....	18.4	29.6	33.1	33.4	34.2	32.8	37.8	36.9	38.7	48.6	51.4	57.1
Gross cash income.....	54.8	90.7	117.3	135.1	143.3	146.0	150.6	150.4	155.2	156.8	152.0	160.4
Cash expenses.....	36.4	61.1	84.2	101.7	109.1	113.2	112.8	113.5	116.6	110.0	106.6	103.3
Change in loans outstanding.....	2.3	9.2	16.5	24.2	15.2	15.5	7.2	3.2	-1.9	-15.6	-19.9	-12.6
Real estate loans.....	1.1	4.6	8.3	13.0	9.9	9.0	3.8	2.3	-1.1	-6.0	-10.7	-7.7
Nonreal estate loans ¹	1.2	4.6	8.3	11.2	5.3	6.5	3.4	.9	-.8	-9.8	-9.2	-4.9
Net change in operators' currency and demand deposits.....	.1	.1	.1	.1	.1	.2	.2	.3	.2	.7	1.1	-.2
Net rent received by nonoperator landlords.....	2.1	4.0	4.0	6.2	6.1	6.2	6.1	5.1	8.6	8.2	6.7	7.0
Capital expenditures.....	6.8	12.4	17.9	20.1	18.0	16.8	13.3	12.7	12.5	9.8	8.5	9.8
Net cash flow ²	16.1	30.5	35.8	43.8	37.6	37.8	38.1	32.8	33.1	30.2	30.8	41.4

¹ Excludes Commodity Credit Corporation loans. ² Net cash income plus change in loans outstanding plus net change in currency and demand deposits plus net rent received by non-operator landlords minus capital expenditures.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual.

Agriculture

NO. 1094. GROSS FARM PRODUCT—SUMMARY: 1970 TO 1987

[In billions of dollars. For definition of gross product, see text, section 14. Minus sign (-) indicates decrease]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
CURRENT DOLLARS												
Total value of farm output ¹	55.1	99.8	125.7	149.5	148.4	164.3	158.0	142.9	166.8	158.8	148.3	153.4
Farm marketings cash receipts ²	50.5	88.9	112.2	131.5	139.8	142.1	142.9	133.1	141.7	144.9	133.7	138.4
Farm products consumed ³.....	.8	1.1	1.1	1.2	1.1	1.1	1.0	1.1	1.1	.9	.9	.9
Change in farm inventories.....	-	3.4	2.1	5.0	5.9	5.8	-1.4	-7.5	7.1	-3.3	-1.9	-1.5
Gross rental value of farm housing.....	3.3	5.4	8.1	9.3	11.0	12.6	12.9	12.1	12.2	10.9	9.8	9.2
Less: Intermediate products purchased ⁴	28.8	49.5	65.4	77.7	82.9	84.5	82.0	83.6	89.2	83.4	72.9	77.5
Equals: Gross farm product.....	28.3	50.3	60.3	71.8	65.5	79.8	77.0	59.3	77.6	75.4	75.4	76.9
Less: Capital consumption allowances ⁵	5.9	10.4	14.5	16.4	18.9	20.8	22.0	22.4	22.5	22.0	21.2	20.5
Indirect business taxes.....	2.0	2.5	2.8	3.0	3.0	3.2	3.3	3.2	3.0	3.1	3.0	3.1
Plus: Subsidies to farm operators.....	3.3	.7	2.5	1.1	1.1	1.6	2.4	7.9	7.0	8.3	9.6	13.9
Equals: Farm national income.....	21.7	38.1	45.5	53.4	44.7	57.3	54.0	41.7	59.2	56.5	60.7	66.1
CONSTANT (1982) DOLLARS												
Total value of farm output ¹	135.2	138.6	149.8	155.8	151.7	159.3	159.0	143.1	155.2	164.1	182.2	165.0
Farm marketings cash receipts ²	112.7	117.4	129.8	132.5	138.5	138.9	142.9	132.4	133.2	150.7	147.1	149.7
Farm products consumed ³	1.7	2.0	1.5	1.4	1.2	1.1	1.0	1.1	1.0	.9	.8	.8
Change in farm inventories.....	.8	1.4	.6	4.6	4.7	4.9	-1.4	-6.3	4.6	-4.3	-2.5	-2.5
Gross rental value of farm housing.....	18.3	18.4	15.4	14.9	14.3	13.6	12.9	12.3	12.1	11.7	11.4	11.1
Less: Intermediate products purchased ⁴	74.5	73.8	88.8	91.2	87.6	83.5	82.0	81.8	88.7	84.7	78.5	82.5
Equals: Gross farm product.....	60.7	64.8	81.0	84.8	84.2	75.7	77.0	61.3	68.5	79.4	83.7	82.5
Less: Capital consumption allowances ⁵	16.0	19.0	21.0	21.7	22.3	22.2	22.0	21.4	20.8	20.0	19.0	18.0
Indirect business taxes.....	2.6	2.8	2.6	2.8	2.8	3.3	3.3	2.7	3.0	3.4	3.6	3.6
Plus: Subsidies to farm operators.....	1.6	1.8	2.0	2.1	2.3	2.2	2.4	2.0	2.0	2.5	2.4	2.4
Equals: Farm national income.....	43.7	44.7	39.3	42.2	41.4	52.4	54.0	39.3	46.8	58.5	63.5	63.3

- Represents zero. ¹ Includes other farm income not shown separately. ² Includes net CCC loans. ³ In farm households where raised. ⁴ Net of defaulters' gain. ⁵ With capital consumption adjustment.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and Survey of Current Business, July issues.

NO. 1095. FARM INCOME AND EXPENSES: 1970 TO 1987

[In billions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series K 192, K 259-260, K 264-265, and K 328]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Gross income from farming.....	68.8	100.6	128.4	150.7	149.3	166.3	163.5	153.1	174.9	166.2	159.8	169.8
Cash income.....	54.9	90.7	117.3	125.1	142.3	146.0	150.6	150.4	155.2	156.8	160.2	160.4
Marketings, cash receipts.....	50.5	88.0	112.4	131.5	139.7	141.6	142.6	138.6	142.4	144.0	135.1	138.1
Crops.....	21.0	45.8	53.2	62.3	71.7	72.5	72.3	67.1	69.5	74.2	63.6	61.9
Net CCC loans ²	-.1	.2	(2)	-.9	.5	3.1	8.1	-.7	-.8	11.8	8.3	.2
Livestock.....	29.5	43.1	59.2	69.2	68.0	69.2	70.3	69.4	73.0	69.8	71.5	76.2
Government payments.....	3.7	.8	3.0	1.4	1.3	1.9	3.5	8.3	8.4	7.7	11.8	16.7
Other farm income ³.....	.6	1.0	1.9	2.2	2.3	2.5	4.5	4.5	4.4	6.0	5.1	5.6
Value of home consumption.....	.8	1.1	1.2	1.3	1.2	1.2	1.1	1.1	1.1	.9	.9	.9
Rental value of dwellings.....	3.3	5.4	8.1	9.3	11.0	12.6	13.1	12.5	12.3	10.9	9.7	9.1
Value of change in inventories ⁴	(2)	3.4	1.9	5.0	-6.3	6.5	-1.4	-10.9	6.3	-2.4	-2.8	-.6
Expenses of farm production.....	44.5	75.1	103.2	123.3	133.1	139.4	140.0	140.4	142.7	134.0	122.3	123.5
Intermediate products.....	25.2	42.5	60.2	71.9	76.1	76.8	73.7	75.8	76.0	72.2	65.8	68.6
Farm origin.....	13.3	20.0	28.8	35.2	34.9	33.3	31.4	33.5	32.8	30.3	28.9	31.1
Feed purchased.....	8.0	12.9	18.0	19.3	21.0	20.9	18.6	21.7	19.9	18.0	16.2	18.1
Livestock, poultry purchased.....	4.3	5.0	10.2	13.0	10.7	9.0	9.7	8.8	9.5	9.0	9.7	12.0
Seed purchased.....	-.9	2.1	2.8	2.9	3.2	3.4	3.2	3.0	3.4	3.0	3.0	3.0
Manufactured inputs.....	5.4	12.4	15.3	17.9	22.4	23.9	22.2	20.8	21.5	21.0	17.0	16.8
Fertilizer and lime.....	2.4	6.7	6.6	7.4	9.5	9.4	8.0	7.1	7.4	7.3	5.8	5.4
Pesticides.....	1.0	1.8	2.7	3.4	3.5	4.2	4.3	4.2	4.8	5.0	4.5	4.6
Fuel and oil.....	1.7	3.3	4.6	5.6	7.9	8.6	7.9	7.5	7.1	6.6	4.8	4.4
Electricity.....	.3	.6	1.4	1.4	1.5	1.7	2.0	2.1	2.2	2.1	1.9	2.4
Repairs and maintenance ⁵	2.8	4.5	6.8	7.3	7.6	7.6	6.4	6.5	6.4	6.4	6.4	6.5
Other ⁶	3.7	5.6	9.5	11.5	11.2	11.9	13.6	14.9	15.3	14.5	13.5	14.1
Interest.....	3.4	6.4	10.2	13.1	16.3	19.9	21.8	21.4	21.1	18.7	16.9	15.6
Real estate.....	1.8	3.3	5.1	6.2	7.5	9.1	10.5	10.8	10.7	9.9	9.1	8.2
Non-real estate.....	1.6	3.1	5.2	6.9	8.7	10.7	11.3	10.6	10.4	8.8	7.8	7.3
Contract, hired labor expenses ⁷	4.9	6.6	8.3	9.0	9.3	8.9	10.1	9.7	9.7	9.8	9.8	10.7
Net rent to nonoperator landlords.....	2.1	4.0	4.0	6.2	6.1	6.2	6.1	5.1	8.6	8.2	8.7	7.0
Capital consumption ⁸	6.9	12.4	17.0	19.3	21.5	23.5	24.3	23.9	23.1	20.8	18.9	17.3
Property taxes.....	2.8	3.2	3.6	3.9	3.8	4.2	4.0	4.5	4.1	4.2	4.1	4.3
Net income of farm operators from farming.....	14.4	25.5	25.2	27.4	16.1	26.9	23.5	12.7	32.2	32.3	37.5	46.3
In constant (1982) dollars.....	34.2	43.1	34.9	34.9	16.8	28.6	23.5	12.2	29.9	29.1	32.9	39.3

Z Less than \$50 million. ¹ Forest product sales are included in cash receipts for crops for 1970 and 1975 and in other farm income beginning 1978. ² Commodity Credit Corporation (CCC) loans made minus loans repaid. ³ Minus sign (-) indicates decrease in inventories. ⁴ Includes bulbs, plants, and trees. ⁵ Expenditures for repairs and maintenance of farm buildings, motor vehicles, and machinery. ⁶ Includes machine hire and customwork expenses; marketing, storage, and transportation expenses and miscellaneous expenses. Beginning 1978 data not strictly comparable with prior years. ⁷ Includes Social Security payments and perquisites. ⁸ Depreciation and accidental damage.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual.

No. 1096. FARM INCOME—CASH RECEIPTS FROM FARM MARKETINGS: 1970 TO 1987

[Represents gross receipts from commercial market sales as well as net Commodity Credit Corporation loans. See also *Historical Statistics, Colonial Times to 1970*, series K 288-302]

ITEM	FARM MARKETINGS (mil. dol.)								PERCENT		
	1970	1975	1980	1983	1984	1985	1986	1987	1970	1980	1987
Total.....	50,509	68,902	139,737	136,567	142,436	144,015	135,102	138,094	100.0	100.0	100.0
All crops.....	20,977	45,813	71,746	67,126	69,469	74,173	63,554	61,876	41.5	51.3	44.8
Feed crops.....	5,109	12,183	18,308	15,535	15,668	22,520	16,982	13,061	10.1	13.1	9.5
Corn.....	3,326	8,530	13,959	10,857	10,479	16,852	12,544	8,807	5.6	10.0	6.4
Hay.....	614	1,387	1,917	2,157	2,322	2,348	2,094	2,223	1.2	1.4	1.3
Sorghum.....	641	1,302	1,392	1,220	1,469	1,981	1,338	1,008	1.3	1.0	.7
Barley.....	298	625	736	991	1,088	1,040	822	782	.6	.5	.6
Oil-bearing crops.....	3,591	7,480	15,493	12,546	13,641	12,474	10,592	10,800	7.1	11.1	7.8
Soybean.....	3,164	6,637	14,241	12,154	11,957	11,180	9,211	9,565	6.3	10.2	6.9
Peanuts.....	360	742	607	802	1,233	1,005	1,075	1,016	.7	.4	.7
Food grains.....	2,542	8,195	10,402	9,713	9,740	8,993	5,631	5,411	5.0	7.4	3.9
Wheat.....	2,067	7,028	8,854	8,777	8,586	7,911	4,880	4,669	4.1	6.3	3.5
Rice.....	447	1,138	1,519	882	1,096	1,042	722	516	.1	1.1	.4
Vegetables ¹	2,814	5,346	7,307	8,459	9,137	8,558	8,830	9,223	5.6	5.2	6.7
Potatoes.....	(NA)	(NA)	(NA)	1,689	1,921	1,604	1,371	1,588	(NA)	(NA)	1.2
Tomatoes.....	(NA)	(NA)	(NA)	1,137	1,240	1,198	1,265	1,283	(NA)	(NA)	.9
Fruits, tree nuts ²	2,071	3,583	6,557	6,056	6,737	6,843	7,288	7,869	4.1	4.7	5.7
Oranges.....	(NA)	(NA)	(NA)	1,335	1,357	1,340	1,158	1,300	(NA)	(NA)	.9
Apples.....	(NA)	(NA)	(NA)	739	951	892	990	1,091	(NA)	(NA)	.8
Cotton lint, seed.....	1,254	2,311	4,447	3,705	3,674	3,687	3,551	4,027	2.5	3.2	2.9
Tobacco.....	1,388	2,155	2,672	2,752	2,613	2,722	1,918	1,827	2.7	1.9	1.3
Greenhouse, nursery.....	2,208	4,579	6,560	{ 4,529	5,227	5,443	5,848	6,402	5.6	4.4	4.6
Other ²	2,208	4,579	6,560	{ 2,636	2,893	2,935	3,114	3,256	4.4	4.7	4.24
All livestock and products.....	29,532	43,088	67,991	69,435	72,988	69,842	71,548	76,218	58.5	48.7	55.2
Cattle and calves.....	13,633	17,520	31,819	28,682	30,862	29,057	28,923	33,829	27.0	22.8	24.5
Dairy products.....	6,527	9,923	16,365	16,763	17,944	18,063	17,753	17,828	12.9	11.7	12.9
Hogs.....	4,478	7,916	8,842	9,785	9,703	9,029	9,716	10,328	8.8	6.4	7.5
Broilers.....	1,464	2,953	4,303	4,873	6,018	5,680	6,777	6,178	2.9	3.1	4.5
Eggs.....	2,109	2,814	3,247	3,451	4,096	3,252	3,508	3,177	4.2	2.3	2.3
Turkeys.....	499	784	1,273	1,269	1,656	1,819	1,852	1,701	1.0	.9	1.2
Horses and mules.....	(*)	(*)	(*)	580	580	580	500	540	(*)	(*)	.4
Sheep and lambs.....	334	386	471	426	466	503	484	560	7	.3	.3
Other poultry ⁴	177	250	337	388	290	307	315	319	.4	.2	.2
Other ⁵	* 313	* 534	* 1,233	1,241	1,557	1,572	1,820	1,761	*.6	*.9	1.3

NA Not available. ¹ Melons included with vegetables. ² Sugar crops, forest products (for 1970 and 1975), mushrooms, legume and grass seeds, hops, mint, broom-corn, popcorn, hemp fiber and seed, and flax fiber. ³ Horses and mules included in other. ⁴ Farm chickens, ducks, geese, guineas, pigeons, quail, pheasants, and turkey hatching eggs. ⁵ Wool, mohair, honey, aquaculture, and other livestock.

No. 1097. GOVERNMENT PAYMENTS TO FARMS, BY PROGRAM: 1980 TO 1987

[In millions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series K 326-329]

PROGRAM	1980	1983	1984	1985	1986	1987	PROGRAM	1980	1983	1984	1985	1986	1987
Total.....	1,286	9,295	8,430	7,705	11,814	16,747	Rice.....	2	278	192	577	423	475
Feed grain.....	382	1,346	367	2,861	5,158	8,490	Wool.....	28	84	118	98	112	144
Wheat.....	211	864	1,795	1,950	3,600	2,821	Conservation.....	214	188	191	188	254	1,531
Cotton.....	172	662	275	1,108	1,042	1,204	Miscellaneous....	276	15,674	15,493	1924	1,325	1,972

¹ Includes value of commodities transferred to farmers under the payment-in-kind program (PIK). For 1983, \$5.2 billion; for 1984, \$4.5 billion; and for 1985, \$1 billion.

No. 1098. FARMS, FARM INCOME, ASSETS, AND DEBT, BY VALUE OF SALES: 1987

[Minus sign (—) indicates loss]

F FARMS WITH VALUE OF SALES OF—	Num-ber of farms ¹ (1,000)	Gross in- come ² (bil. dol.)	Cash receipts (bil. dol.)	Govt. pay-ments (mil. dol.)	Net in- come ² (mil. dol.)	As-sets ³ (bil. dol.)	Debt ³ (bil. dol.)	Debt/asset ratio ³ (per- cent)	PERCENT DISTRIBUTION		
									Num-ber of farms ¹	Gross in- come ²	As-sets ³
Total.....	2,176	170.4	138.1	16,747	46.9	813.1	153.3	18.9	100.0	100.0	100.0
Less than \$5,000.....	837	6.1	1.6	312	-1.2	102.0	9.4	9.2	38.5	3.6	12.5
\$5,000-\$9,999.....	302	4.5	2.2	514	.3	49.3	5.2	10.6	13.9	2.6	6.1
\$10,000-\$19,999.....	241	5.5	3.4	827	.5	52.3	6.6	12.6	11.1	3.2	6.4
\$20,000-\$39,999.....	209	8.5	5.8	1,528	1.3	65.3	9.3	14.2	9.6	5.0	8.0
\$40,000-\$89,999.....	286	24.4	18.1	4,271	5.4	146.2	25.8	17.6	13.2	14.3	18.0
\$100,000-\$249,999.....	201	37.7	30.4	5,283	10.4	179.8	36.5	20.3	9.2	22.2	22.1
\$250,000-\$499,999.....	71	28.8	24.7	2,705	9.1	113.2	25.3	22.3	3.2	16.9	13.8
\$500,000 and over.....	29	54.9	51.8	1,328	21.2	105.0	35.3	33.6	1.3	32.2	12.9

¹ Based on 1974 census definition. See text, section 23. ² Data are before inventory adjustment. For components of income, see table 1095. ³ Data as of December 31. Includes farm households.

Source of tables 1096-1098: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector National Financial Summary, 1987*.

Agriculture

NO. 1099. FARM ASSETS, DEBT, AND INCOME, BY STATE: 1986 AND 1987

[Assets and debt, as of December 31. Includes farm operator households. Farm income data are after inventory adjustment]

DIVISION AND STATE	ASSETS (mil. dol.)		DEBT (mil. dol.)		Debt/ asset ratio, 1987 (per- cent)	GROSS FARM INCOME (mil. dol.)		NET FARM INCOME (mil. dol.)		Net farm in- come/ debt ratio, 1987 (per- cent)
	1986	1987	1986	1987		1986	1987	1986	1987	
U.S.	789,413	813,074	166,815	153,291	18.9	159,833	169,766	37,496	46,264	28.9
N.E.:										
ME.....	2,389	2,655	371	361	13.6	457	532	62	137	37.4
NH.....	1,241	1,379	77	70	5.1	153	148	35	33	44.0
VT.....	2,950	3,062	352	330	10.8	468	479	99	124	36.2
MA.....	2,794	3,242	248	241	7.4	524	505	204	182	74.5
RI.....	382	549	27	27	4.9	88	88	49	46	172.2
CT.....	2,391	2,787	210	191	6.9	449	444	152	155	77.3
M.A.:										
NY.....	13,212	13,391	2,617	2,423	18.1	2,910	2,874	562	612	24.3
NJ.....	6,029	6,563	417	394	6.0	750	788	260	288	71.1
PA.....	20,659	21,820	2,533	2,419	11.1	3,638	3,758	897	1,050	42.4
E.N.C.:										
OH.....	22,576	23,268	3,921	3,544	15.2	4,139	4,192	814	956	25.6
IN.....	22,644	23,298	5,695	5,112	21.9	4,662	4,840	745	930	17.2
IL.....	40,793	42,809	8,586	7,711	18.0	7,875	7,725	1,493	1,577	19.4
MI.....	15,194	15,312	3,748	3,329	21.7	3,208	3,284	594	731	20.7
WI.....	21,439	21,312	6,131	5,640	26.5	6,556	5,826	1,459	1,741	29.6
W.N.C.:										
MN.....	26,343	28,638	8,292	7,456	26.0	7,131	7,409	1,695	1,999	25.4
IA.....	39,828	44,917	11,490	10,220	22.8	10,522	11,060	2,321	2,777	25.6
MO.....	26,496	27,304	5,529	5,043	18.5	4,255	4,476	757	995	18.8
ND.....	17,558	18,129	4,108	3,845	21.2	3,144	3,143	690	754	19.0
SD.....	13,294	14,479	3,944	3,559	24.6	3,031	3,383	727	963	25.7
NE.....	24,974	26,765	7,076	6,497	24.3	8,090	8,674	1,767	2,064	30.4
KS.....	24,961	26,945	6,082	5,660	21.0	6,927	7,286	1,459	1,887	28.7
S.A.:										
DE.....	1,488	1,541	284	281	18.2	555	525	185	145	51.5
MD.....	6,329	6,648	1,005	943	14.2	1,351	1,345	370	378	38.8
VA.....	14,968	15,601	2,056	1,905	12.8	2,036	2,139	404	499	24.6
WV.....	2,988	3,112	301	304	9.8	344	318	44	29	9.6
NC.....	16,980	16,516	3,218	2,937	17.8	4,322	4,563	1,166	1,418	46.1
SC.....	6,358	5,701	1,284	1,160	17.3	1,047	1,204	120	282	23.1
GA.....	15,812	16,030	3,548	3,349	20.9	3,621	3,748	1,052	1,215	35.2
FL.....	23,078	26,060	3,871	3,622	14.5	5,022	5,472	1,970	2,306	61.6
E.S.C.:										
KY.....	17,379	17,525	3,339	2,946	16.8	2,787	2,950	648	870	27.7
TN.....	19,115	20,389	2,467	2,279	11.2	2,358	2,653	399	642	27.0
AL.....	11,463	11,599	1,934	1,723	14.9	2,433	2,558	696	808	44.2
MS.....	13,056	13,218	3,526	3,265	24.7	2,186	2,582	377	736	21.7
W.S.C.:										
AR.....	14,221	14,411	3,442	3,221	22.3	3,639	3,884	1,072	1,187	35.9
LA.....	10,649	10,212	2,585	2,418	23.7	1,678	1,628	184	388	16.5
OK.....	20,474	20,671	4,826	4,356	21.1	3,412	3,493	871	925	20.8
TX.....	81,810	81,324	11,974	11,390	14.0	10,710	12,534	2,374	3,726	31.9
M.L.:										
MT.....	13,833	14,204	3,351	3,034	21.4	1,767	1,851	258	348	10.9
ID.....	11,469	11,753	2,915	2,643	22.5	2,371	2,584	483	624	22.5
WY.....	6,817	6,652	934	847	12.7	679	746	5	82	6.9
CO.....	16,584	17,021	3,565	3,229	18.0	3,581	4,014	545	789	22.8
NM.....	7,038	7,671	1,181	1,108	14.4	1,169	1,324	218	292	25.4
AZ.....	10,540	9,495	1,783	1,729	18.2	1,750	2,065	403	601	34.2
UT.....	6,631	6,361	899	799	12.6	727	751	129	176	20.8
NV.....	2,421	2,309	387	340	14.7	244	266	26	49	13.4
Pac.:										
WA.....	15,842	15,378	3,277	3,078	20.0	3,615	3,711	1,210	1,314	41.4
OR.....	12,242	12,140	2,943	2,644	21.8	2,238	2,373	665	759	28.2
CA.....	58,912	58,160	14,252	13,198	23.5	15,478	16,786	4,618	5,682	41.4
AK.....	446	448	37	31	8.8	36	38	14	15	44.2
HI.....	4,297	4,302	373	355	8.2	604	598	185	178	48.8

¹ Total debt in this ratio is an average for the year.Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary, 1987*.

Farm Marketings and Government Payments

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NO. 1100. FARM INCOME—FARM MARKETINGS, 1986 AND 1987, GOVERNMENT PAYMENTS, 1987, AND PRINCIPAL COMMODITIES, 1987, BY STATE

(In millions of dollars. Cattle include calves; sheep include lambs; and greenhouse includes nursery)

DIVISION AND STATE	1986			1987			State rank for total farm marketings and principal commodities in order of marketing receipts and as percentage of total marketings	
	Farm marketings		Livestock and products	Farm marketings		Livestock and products		
	Total	Crops		Total	Crops			
U.S.	135,102	63,554	71,548	138,094	61,876	76,218	16,747	
N.E.	1,759	729	1,031	1,763	744	1,018	28	
ME.	386	140	247	413	170	243	8	
NH.	110	38	72	104	38	66	3	
VT.	397	36	361	412	35	377	7	
MA.	416	286	130	393	268	124	5	
RI.	76	64	12	75	63	12	(2)	
CT.	374	166	209	366	170	196	5	
M.L.	6,317	2,117	4,200	6,314	2,054	4,259	192	
NY.	2,580	782	1,808	2,527	726	1,800	109	
N.J.	582	432	150	583	423	140	11	
PA.	3,145	903	2,242	3,224	905	2,319	72	
E.N.C.	21,850	10,989	10,864	20,988	9,751	11,238	3,377	
OH.	3,589	2,004	1,566	3,422	1,808	1,614	432	
IN.	4,061	2,201	1,860	3,872	2,016	1,855	670	
IL.	6,766	4,612	2,155	6,174	3,913	2,262	1,478	
MI.	2,587	1,327	1,241	2,504	1,219	1,285	391	
WI.	4,867	845	4,022	5,017	795	4,221	406	
W.N.C.	35,351	15,119	20,232	35,856	13,333	22,520	7,138	
MN.	6,030	2,622	3,408	5,808	2,165	3,645	1,184	
IA.	8,984	4,003	4,981	6,780	3,510	5,270	1,988	
MO.	3,506	1,537	1,968	3,691	1,517	2,173	490	
ND.	2,310	1,639	671	2,308	1,548	760	720	
SD.	2,375	889	1,487	2,723	813	1,910	505	
NE.	6,813	2,562	4,251	6,823	1,875	4,848	1,275	
KS.	5,393	1,867	3,466	5,722	1,807	3,914	966	
S.A.	16,114	8,067	8,049	16,486	8,498	7,987	751	
DE.	521	119	402	485	114	370	12	
MD.	1,185	374	811	1,128	394	734	49	
VA.	1,629	479	1,151	1,692	448	1,244	87	
W.V.	215	59	156	221	52	160	11	
NC.	3,757	1,586	2,171	3,715	1,634	2,081	190	
SC.	898	442	456	931	470	461	114	
GA.	3,195	1,312	1,884	3,087	1,261	1,826	245	
FL.	4,714	3,696	1,018	5,227	4,125	1,102	43	
E.S.C.	8,072	3,197	4,876	8,476	3,266	5,213	763	
KY.	2,402	1,040	1,362	2,417	913	1,506	178	
TN.	1,854	813	1,041	1,933	826	1,107	157	
AL.	2,020	595	1,425	2,148	588	1,560	125	
MS.	1,798	749	1,048	1,979	939	1,040	303	
W.S.C.	16,643	5,719	9,924	16,401	5,653	10,748	2,411	
AR.	3,005	988	2,017	3,143	1,027	2,116	398	
LA.	1,352	637	515	1,420	899	521	209	
OK.	2,582	708	1,874	2,752	700	2,052	363	
TX.	8,703	3,186	5,518	9,086	3,027	6,059	1,441	
M.L.	10,173	3,960	6,214	10,894	4,241	6,755	1,203	
MT.	1,121	469	652	1,347	587	760	352	
ID.	1,936	1,052	884	2,047	1,120	926	234	
WY.	566	116	451	642	114	528	36	
CO.	3,106	888	2,218	3,191	870	2,321	342	
NM.	1,016	304	712	1,147	391	817	93	
AZ.	1,614	918	696	1,781	1,007	774	97	
UT.	576	134	442	596	134	462	45	
NV.	238	79	159	243	78	167	4	
Pac.	19,823	13,860	6,163	20,812	14,337	6,477	883	
WA.	2,807	1,828	980	2,841	1,880	982	292	
OR.	1,778	1,124	654	1,861	1,206	655	127	
CA.	14,645	10,209	4,435	15,522	10,781	4,741	462	
AK.	28	18	10	29	19	11	2	
HI.	565	481	84	559	471	88	(2)	

Z Less than \$500 thousand.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary, 1987*.

No. 1101. COMMODITY CREDIT CORPORATION—SUMMARY: 1970 TO 1987

[In millions of dollars. As of end of fiscal year or for fiscal years ending in year shown; see text, section 9. The Commodity Credit Corporation is a wholly government-owned corporation. Its purpose is stabilizing, supporting, and protecting farm income and prices; assisting in maintenance of balanced adequate supplies of agricultural commodities; and facilitating orderly distribution of agricultural commodities. See also *Historical Statistics, Colonial Times to 1970*, series K 330-343.]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
LOAN ACTIVITY¹											
Loans made	2,988	852	4,576	4,228	5,849	11,454	13,710	5,131	10,187	17,391	16,585
Loans repaid	1,830	939	4,048	4,148	5,741	4,629	9,373	10,581	4,458	5,675	13,894
Loans cancelled by acquisition of collateral	1,073	100	318	115	71	363	860	1,032	1,638	5,583	6,144
Loans outstanding²	2,952	335	5,210	5,118	5,193	11,633	15,084	8,571	12,831	18,888	15,174
Wheat	576	4	816	837	1,871	3,921	4,182	3,414	4,591	3,753	2,838
Corn	632	39	1,301	1,617	629	4,210	5,274	1,236	2,766	7,478	7,424
Cotton	170	143	80	35	76	714	960	87	376	1,076	453
Tobacco	845	119	903	815	764	867	1,738	2,084	2,539	2,336	2,071
COMMODITY INVENTORY OPERATIONS											
Acquisitions, value ³	1,518	835	1,007	2,759	2,507	2,968	8,834	8,741	4,294	8,912	17,817
Purchases	398	735	677	2,643	2,503	2,593	7,644	7,676	2,616	4,195	11,212
Collateral acquired from loans	1,120	100	330	116	4	375	990	1,065	1,678	5,717	6,405
Wheat	217	4	40	601	28	27	1,800	1,983	919	2,196	1,802
Corn	49	2	195	416	21	179	3,132	2,591	192	2,287	10,318
Cotton	304	(z)	(z)	1	(z)	(z)	175	1,056	53	559	1,273
Dairy products	253	480	247	1,262	1,991	2,282	2,716	1,983	1,820	2,036	956
Commodities owned, value²	1,858	416	1,162	2,737	3,727	5,103	10,227	7,558	6,821	11,050	11,735
Wheat	405	2	118	705	679	679	1,533	1,510	1,051	3,491	3,272
Corn	293	(z)	209	596	555	708	3,392	1,045	757	1,757	4,172
Cotton	225	(z)	(z)	1	1	2	174	74	46	228	24
Sorghum	173	(z)	92	93	79	91	520	290	359	725	1,244
Dairy products	134	290	570	1,266	2,396	3,442	4,219	4,102	3,014	2,830	1,439

² Less than \$500,000. ¹ Covers commodity loans and storage facility and equipment loans. The latter were not available after July 1982. ² Includes amounts for commodities and storage facilities, not shown separately. ³ For 1970, includes purchases for commodity export program.

No. 1102. COMMODITY CREDIT CORPORATION—NET OUTLAYS BY COMMODITY AND FUNCTION:
1970 TO 1987

[In millions of dollars. For fiscal year ending in year shown; see text, section 9. Excludes value of commodity certificates which may also be issued to farmers in lieu of cash under certain programs. Minus sign (—) indicates a net receipt (excess of repayments or other receipts over gross outlays of funds)]

COMMODITY AND FUNCTION	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	3,839	585	3,612	2,752	4,036	11,652	18,851	7,315	17,683	25,841	22,408
Feed grains	1,440	200	1,144	1,286	593	5,397	6,815	—758	5,211	12,211	13,967
Wheat	796	22	308	879	1,543	2,238	3,418	2,536	4,691	3,440	2,836
Cotton, upland	891	233	141	64	336	1,190	1,363	244	1,553	2,142	1,785
Dairy	87	424	24	1,011	1,894	2,182	2,528	1,502	2,085	2,337	1,166
Rice	39	(z)	49	—78	24	164	664	333	990	947	906
Wool	58	19	39	35	42	54	94	132	109	123	152
Honey	1	(z)	—2	9	8	27	48	90	81	88	73
Peanuts	35	121	27	28	28	12	—6	1	12	32	8
Sugar	—	—	313	—405	—121	—5	49	10	184	214	—65
Tobacco	115	—129	157	—88	—51	103	880	346	455	253	—346
Soybeans	—161	—22	4	116	87	169	288	—585	711	1,597	—476
Operating expense	57	72	97	157	159	294	328	362	348	457	535
Interest expenditure	312	147	238	518	220	—13	3,525	1,064	1,435	1,411	1,219
Export programs	45	—258	417	669	940	65	398	743	134	102	276
Other	126	—244	556	—113	1,340	—225	—1,542	1,295	—914	486	371
Price support loans ¹	552	—15	2	—86	174	7,015	8,438	—27	6,272	13,628	12,199
Direct payments ²	2,135	580	1,811	418	1,030	1,491	3,600	2,117	7,827	6,746	5,882
Purchases ³	—336	271	10	1,881	1,802	2,031	2,540	1,470	1,331	1,670	—479
Producer storage payments	144	(z)	247	254	32	679	964	268	329	485	832
Processing, storage and transportation	215	36	128	259	323	355	665	639	857	1,013	1,859
Operating expense	57	72	97	157	159	294	328	362	348	457	535
Interest expenditure	312	147	238	518	220	—13	3,525	1,064	1,435	1,411	1,219
Export programs ⁴	148	—255	417	—869	—940	65	398	743	134	102	276
Other	614	—231	662	200	1,438	—265	—1,607	679	—648	329	305

¹ Represents zero. ² Less than \$500,000. ³ Price support loans made less loans repaid. ⁴ Covers deficiency, diversion, and disaster payments; for 1970 and 1975 includes support and acreage diversion payments; and beginning 1986 includes dairy termination program. ⁵ Purchases less sales proceeds. ⁶ Export programs include direct export credit sales in 1970 and 1975. Commodity export payments are included in individual commodity totals in those years. Export programs beginning 1979 include the direct export credit sales program, the export guarantees program, and transfers to the general sales manager.

Source of tables 1101 and 1102: U.S. Agricultural Stabilization and Conservation Service, *Commodity Credit Corporation Report of Financial Condition and Operations*, annual, and *Agricultural Outlook*, monthly.

Farm Price Indexes—Consumer Expenditures for Farm Food

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NO. 1103. INDEXES OF PRICES RECEIVED AND PAID BY FARMERS: 1980 TO 1987

[1977 = 100, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series K 344-353]

ITEM	1980	1985	1986	1987	ITEM	1980	1985	1986	1987
Prices received, all products	134	128	123	127	Prices paid, total ³	138	163	159	162
Crops ¹	125	120	107	106	Production ¹	138	151	144	147
Food grains	165	133	109	103	Feed	123	116	108	103
Feed grains and hay	132	122	98	85	Feeder livestock	177	154	153	179
Cotton	114	93	91	98	Seed	118	153	148	148
Tobacco	125	153	138	129	Fertilizer	134	135	124	118
Oil-bearing crops	102	84	77	79	Agricultural chemicals	102	128	127	124
Fruits	124	180	170	182	Fuels and energy	188	201	162	161
Commercial vegetables ²	113	129	130	144	Farm and motor supplies	134	146	144	144
Livestock and products	144	136	138	146	Interest payable per acre	178	237	219	207
Meat animals	156	142	145	163	Taxes payable per acre	115	133	134	136
Dairy products	135	131	128	129	Wage rates ⁴	127	154	160	167
Poultry and eggs	112	119	128	107	Parity ratio (1910-14=100) ⁵	65	52	51	52

¹ Includes other items not shown separately. ² Excludes potatoes. ³ Includes production items, interest, taxes, wage rates, and a family living component. The family living component is the Consumer Price Index for all urban consumers from the Bureau of Labor Statistics. See text, section 15, and table 758. ⁴ Straight average of seasonally adjusted indexes. ⁵ Ratio of prices received by farmers to prices paid.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Agricultural Prices: Annual Summary*.

NO. 1104. CIVILIAN CONSUMER EXPENDITURES FOR FARM FOODS—FARM VALUE AND MARKETING BILL: 1970 TO 1987

[In billions of dollars, except percent. Excludes imported and nonfarm foods, such as coffee and seafood, as well as food consumed by the military, or exported. See *Historical Statistics, Colonial Times to 1970*, series K 358-360 for data before revisions]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Consumer expenditures, total	110.6	167.0	245.2	264.4	287.7	298.9	315.0	332.0	345.4	359.6	377.1
Farm value, total	35.5	55.6	79.2	81.7	83.2	83.7	85.7	81.4	88.3	88.1	93.9
Marketing bill, total ¹	75.1	111.4	166.0	182.7	204.5	215.2	229.3	240.6	257.1	270.6	283.2
Percent of total consumer expenditures	67.9	66.7	67.7	69.1	71.1	72.0	72.5	74.4	75.2	75.2	75.1
At-home expenditures ²	78.2	116.2	169.4	180.1	194.0	196.7	204.6	213.1	220.8	226.0	232.3
Farm value	29.1	44.0	64.5	65.8	66.6	65.9	66.8	70.7	68.1	67.8	69.7
Marketing bill ¹	49.1	72.2	104.9	114.2	127.4	130.8	137.8	142.4	152.7	158.2	162.6
Percent of at-home expenditures	62.8	62.1	61.9	63.4	65.7	66.5	67.4	66.8	69.2	70.0	70.0
Away-from-home expenditures	32.4	50.8	75.8	84.3	93.7	102.2	110.4	118.9	124.6	133.6	144.8
Farm value	6.4	11.6	14.7	15.8	16.6	17.8	18.9	20.7	20.2	21.3	24.2
Marketing bill ¹	26.0	39.2	61.1	68.5	77.1	84.4	91.5	98.2	104.4	112.3	120.8
Percent of away-from-home expenditures	80.2	77.2	80.6	81.3	82.3	82.6	82.9	82.6	83.8	84.1	83.3
Marketing bill cost components											
Labor cost ³	32.2	48.3	75.2	81.5	91.0	96.6	102.4	109.3	116.5	124.2	130.7
Packaging materials	8.2	13.3	18.6	21.0	22.8	23.7	24.7	26.2	26.9	27.7	29.5
Rail and truck transport ⁴	5.2	8.4	11.8	13.0	14.3	14.7	15.4	15.9	16.5	16.8	17.2
Corporate profits before taxes	3.6	7.1	10.4	10.2	10.0	9.6	9.8	9.7	9.5	9.3	9.6
Fuel and electricity	2.2	4.6	8.2	9.0	10.0	11.0	11.7	12.5	13.1	13.3	13.8
Other ⁵	23.7	29.7	41.9	48.0	56.6	59.8	65.3	67.0	74.6	79.2	82.4
Processing	29.7	40.8	60.3	66.3	73.0	74.7	77.6	80.2	87.6	90.9	93.7
Wholesaling	8.7	13.5	18.6	20.4	22.8	25.6	27.1	28.4	29.4	30.5	32.3
Transportation	5.2	8.4	11.8	13.0	14.3	14.7	15.4	15.9	16.5	16.8	17.2
Retailing and food service	31.5	48.6	75.4	83.0	94.4	100.2	109.2	116.1	123.4	132.3	140.0
SELECTED FOOD COMMODITY GROUPS											
Meat products:											
Total expenditures	33.7	48.0	80.2	83.3	86.6	91.9	97.9	101.7	103.2	106.3	109.9
Farm value	14.4	20.6	31.5	30.8	31.1	31.5	32.4	32.4	30.5	30.8	34.2
Percent of total	42.7	42.9	39.3	37.0	35.9	34.3	32.1	31.9	29.6	29.1	31.1
Marketing bill ¹	19.4	27.4	48.7	52.5	55.5	60.4	66.5	68.3	72.7	75.4	75.7
Poultry and eggs:											
Total expenditures	9.1	12.7	17.4	18.3	19.9	20.3	21.7	24.2	26.0	27.6	30.0
Farm value	4.0	6.3	8.1	8.4	8.8	8.5	9.3	11.0	10.2	11.5	10.1
Percent of total	44.0	49.6	46.6	45.9	44.2	41.9	42.9	45.5	39.2	41.7	33.7
Marketing bill ¹	5.1	6.4	9.3	9.9	11.1	11.8	12.4	13.2	15.8	16.1	18.9
Dairy products:											
Total expenditures	16.7	23.3	33.5	37.8	41.4	42.0	45.0	47.4	49.4	51.4	54.0
Farm value	6.9	10.0	14.6	16.0	17.0	16.7	18.0	18.1	17.7	17.8	18.1
Percent of total	41.3	42.9	43.6	42.3	41.1	39.8	40.0	38.2	35.8	34.6	33.5
Marketing bill ¹	9.8	13.3	18.8	21.8	24.4	25.3	27.0	28.3	31.7	33.8	35.9
Fruits and vegetables:											
Total expenditures	22.6	35.6	52.5	55.5	62.8	66.7	70.0	74.7	78.5	81.6	85.7
Farm value	5.1	8.4	10.9	11.7	13.3	13.8	13.3	15.1	15.2	14.9	16.8
Percent of total	22.6	23.6	20.8	21.1	21.2	20.7	19.0	20.2	18.4	18.3	19.6
Marketing bill ¹	17.5	27.2	41.8	43.8	49.5	52.9	56.7	59.6	63.3	66.7	68.9
Bakery, grain mill products:											
Total expenditures	13.6	24.1	31.6	35.2	37.9	39.6	40.6	43.3	45.5	48.3	50.9
Farm value	2.0	4.1	4.8	5.1	4.9	4.8	4.9	5.1	4.7	4.0	3.7
Percent of total	14.7	17.0	15.2	14.5	12.8	12.1	12.1	11.8	10.3	8.3	7.3
Marketing bill ¹	11.6	20.0	26.8	30.1	33.0	34.8	35.7	38.2	40.8	44.3	47.2

¹ The difference between civilian expenditures for domestic farm-originated food products and the farm value or payment farmers received for the equivalent farm products. ² Food primarily purchased from retail food stores for use at home. ³ Covers employee wages and salaries, and their health and welfare benefits. Also includes imputed earnings of proprietors, partners, and family workers not receiving stated remuneration. ⁴ Excludes local hauling. ⁵ Represents advertising, rents, depreciation, interest on borrowed capital, taxes other than income, and other costs.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Food Cost Review*, annual; *Food Consumption, Prices, and Expenditures*, annual; *Agricultural Outlook*, periodic; and *Agricultural Statistics*, annual.

NO. 1105. FARMER MARKETING AND FARM SUPPLY COOPERATIVES—SUMMARY: 1970 TO 1986

[1970 and 1975, for fiscal years of cooperatives ending between July 1 of preceding year and June 30 of year shown. Beginning 1978, reports of cooperatives are for the calendar year. Comprises independent local associations, federations, large-scale centralized associations, and sales agencies. Memberships and businesses are estimated. See also *Historical Statistics, Colonial Times to 1970*, series K 195-203]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986, prel.
Cooperatives listed.....	7,790	7,645	6,600	6,445	6,283	6,211	6,125	5,989	5,782	5,625	5,388
Marketing 1.....	5,015	4,916	4,050	3,938	3,924	3,855	3,826	3,781	3,646	3,583	3,398
Farm supply.....	2,775	2,729	2,550	2,507	2,389	2,356	2,299	2,208	2,136	2,036	1,971
Memberships ² (1,000).....	6,355	6,123	5,895	5,827	5,379	5,335	5,136	4,955	4,842	4,781	4,402
Marketing 1 (1,000).....	3,133	3,151	2,632	2,567	2,574	2,479	2,469	2,402	2,445	2,383	2,175
Farm supply (1,000).....	3,222	2,972	3,063	3,060	2,804	2,856	2,666	2,553	2,397	2,398	2,228
Business ³ (mil. dol.).....	19,080	41,342	47,305	56,288	66,254	71,534	69,180	66,755	73,047	65,801	58,395
Marketing 1 (mil. dol.).....	15,207	32,682	36,253	42,747	50,120	52,788	50,812	56,078	48,961	43,300	
Farm supply (mil. dol.).....	3,873	8,680	11,052	13,521	16,134	17,059	16,362	15,943	16,989	16,841	15,085

¹ Includes cooperatives whose major activity is providing services related to marketing and farm-supply activities. ² Excludes nonvoting patrons. ³ Value of commodities sold or purchased for patrons. Business dollar volume for marketing includes service receipts for charges related to marketing and purchasing. Represents net volume after eliminating intercooperative business.

Source: U.S. Dept. of Agriculture, Agricultural Cooperative Service, *Farmer Cooperative Statistics*, annual.

NO. 1106. SELECTED INDEXES OF FARM INPUTS: 1960 TO 1986

[1977=100. Inputs based on physical quantities of resources used in production. See *Historical Statistics, Colonial Times to 1970*, series K 486-495 for data before revisions]

INPUT	1960	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
Total.....	99	96	97	106	103	102	99	97	95	92	87
Farm labor.....	177	112	108	99	96	96	93	97	92	85	80
Farm real estate ¹	103	106	97	103	103	104	102	101	97	95	93
Mechanical power and machinery.....	83	85	98	104	101	98	92	89	85	81	76
Agricultural chemicals ²	32	75	83	123	123	129	118	105	121	121	103
Feed, seed, and livestock purchases ³	77	96	93	115	114	108	107	103	105	105	102
Taxes and interest.....	95	102	100	103	100	99	92	97	88	91	81
Miscellaneous.....	77	89	82	113	95	98	115	100	110	117	110

¹ Includes service buildings, improvements. ² Includes fertilizer, lime, and pesticides. ³ Includes nonfarm portion.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics*, annual. Also in U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

NO. 1107. FARM MACHINERY AND EQUIPMENT: 1970 TO 1987

[See also *Historical Statistics, Colonial Times to 1970*, series K 184-191]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Value of farm implements and machinery ¹	Bil. dol....	34.4	63.1	83.3	93.2	99.3	107.8	107.9	106.2	102.7	92.4	84.4	78.8
Farmers' expenditures:													
Motor vehicles ²	Mil. dol....	2,030	3,833	5,580	6,284	5,813	5,652	4,436	4,724	4,583	3,699	3,227	3,704
Tractors.....	Mil. dol....	1,123	2,466	3,283	3,746	3,683	3,740	2,597	2,606	2,539	1,937	1,513	1,847
Machinery, equipment.....	Mil. dol....	2,888	4,820	7,158	8,002	6,956	6,481	5,068	4,735	4,682	3,654	3,094	3,918
Repair and maintenance.....	Mil. dol....	1,910	3,417	4,533	5,165	5,205	5,278	4,635	4,793	4,908	4,834	4,828	5,040
Tractors, machinery and equipment.....	Mil. dol....	1,126	2,260	3,519	3,743	3,748	3,771	3,585	3,707	3,796	3,739	3,732	3,688
Autos and trucks ³	Mil. dol....	784	1,057	1,014	1,422	1,459	1,507	1,050	1,086	1,112	1,095	1,093	1,142
Retail sales: ⁴													
Tractors, total ⁵	1,000.....	135.5	161.1	139.8	139.0	119.3	103.8	77.2	71.3	66.7	58.5	47.1	48.4
2-wheel drive.....	1,000.....	135.5	150.5	130.9	127.5	108.4	94.1	70.4	66.2	62.7	55.5	45.1	46.7
4-wheel drive.....	1,000.....	(NA)	10.6	8.7	11.5	10.9	9.7	6.8	5.1	4.0	3.0	2.0	1.7
Combines.....	1,000.....	26.7	33.1	31.5	32.3	25.7	26.8	16.2	12.8	11.4	8.4	7.7	7.2
Corn heads.....	1,000.....	18.5	25.4	21.2	22.4	17.2	15.7	9.3	6.8	5.4	5.0	4.7	3.9
Field forage harvesters.....	1,000.....	15.0	13.1	11.6	12.5	9.5	7.6	5.1	4.1	3.5	2.5	2.2	2.4

NA. Not available. ¹ Farm inventory valuations as of December 31. Includes family automobiles. ² For farm business use.

³ Includes insurance, registration fees, and licensing fees through 1975. ⁴ Source: Farm and Industrial Equipment Institute, Chicago, IL, unpublished data. ⁵ Beginning 1978, covers tractors over 40 hp, only.

Source: Except as noted, U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual. Also in *Agricultural Statistics*, annual.

Fertilizer Supply and Use—Hired Farmworkers—Farm Labor

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No. 1108. SUPPLY AND USE OF FERTILIZER: 1970 TO 1987

[For years ending June 30]

ITEM	Unit	1970– 1974, annual avg.	1975– 1979, annual avg.	1980	1981	1982	1983	1984	1985	1986	1987
Production.....	Mil. nutrient tons.....	20.9	24.9	29.3	29.7	25.5	22.6	24.5	26.8	23.7	23.8
Imports.....	Mil. nutrient tons.....	5.3	6.4	8.2	8.2	7.7	7.4	9.4	9.4	9.1	8.3
Exports.....	Mil. nutrient tons.....	3.2	5.3	7.6	6.4	6.9	6.5	6.8	9.3	15.7	17.6
Agricultural consumption.....	Mil. nutrient tons.....	17.6	20.7	23.1	23.7	21.4	18.1	21.8	21.7	19.7	19.2

¹ Excludes exports of superphosphoric acid which are no longer reported.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Agricultural Resources: Inputs Outlook and Situation Report*, periodic.

No. 1109. HIRED FARMWORKERS—WORKERS AND EARNINGS: 1975 TO 1987

[Represents persons 14 years old and over in the civilian noninstitutional population who did hired farmwork at any time during the year. Based on Current Population Survey; see text, section 1 and Appendix III. For composition of regions, see fig. I, inside front cover]

CHARACTERISTIC	WORKERS (1,000)							AVERAGE ANNUAL EARNINGS RECEIVED FROM HIRED FARMWORK					
				1987 ¹									
	1975	1981	1985	Total	Duration of farmwork					1975	1981		
					Under 25 days	25–74 days	75–149 days	150–249 days	250 days and over				
All workers.....	2,638	2,492	2,522	2,463	856	503	313	333	458	\$1,488	\$2,659	\$3,247	\$3,368
14–17 years old.....	825	605	552	531	270	145	56	31	28	421	753	743	783
18–24 years old.....	733	760	739	621	201	126	103	62	128	1,517	2,468	2,666	2,775
25–34 years old.....	393	498	601	563	167	102	55	105	134	2,209	3,684	4,268	4,649
35–44 years old.....	219	236	260	317	99	69	40	48	61	2,369	4,631	4,736	4,844
45–54 years old.....	193	180	185	216	49	33	30	47	57	(NA)	3,980	6,269	5,507
55–64 years old.....	144	104	110	148	50	12	22	31	33	(NA)	4,077	5,280	4,142
65 years old and over.....	120	108	75	67	20	16	7	9	15	937	1,938	3,626	3,010
Male.....	2,036	1,918	1,980	1,962	648	389	248	275	402	1,737	3,073	3,642	3,708
Female.....	602	574	542	501	208	114	65	58	56	844	1,276	1,801	2,040
White ²	1,907	1,824	1,922	1,917	719	391	236	210	361	1,379	2,359	3,018	3,241
Black and other ²	446	340	274	208	69	44	33	37	26	1,524	2,668	3,008	2,684
Hispanic.....	285	328	326	338	68	68	44	86	72	2,154	4,319	4,795	4,511
Northeast.....	227	204	231	186	49	39	28	22	48	1,287	2,977	3,417	4,416
Midwest.....	674	688	851	928	339	195	108	103	181	1,212	2,019	2,717	2,818
South.....	1,074	1,004	860	845	324	177	102	118	124	1,289	2,217	3,088	2,981
West.....	664	595	580	506	144	92	75	90	105	2,157	4,037	4,194	4,638

NA Not available. ¹Preliminary. ² Excludes persons of Hispanic origin.

Source: U.S. Dept. of Agriculture, Economic Research Service, *The Agricultural Work Force*, periodic.

No. 1110. FARM LABOR—ANNUAL AVERAGE LABOR-HOURS PER UNIT OF PRODUCTION, SELECTED CROPS AND LIVESTOCK: 1960–1964 TO 1982–1986

[See also *Historical Statistics, Colonial Times to 1970*, series K 445–485]

CROP	1960– 1964	1970– 1974	1982– 1986	CROP	1960– 1964	1970– 1974	1982– 1986
Corn for grain: Hours per acre ¹	7.0	4.3	3.1	Tobacco: Hours per acre ²	493	298	218
Yield per acre (bu.).....	62.2	84.0	109.3	Yield per acre (1,000 lb.).....	1.9	2.0	.21
Hours per 100 bushel.....	11	5	3	Hours per 100 lb.....	26	14	10
Wheat: Hours per acre ¹	3.0	2.9	2.6	Milk cows: Hours per cow.....	93	62	24
Yield per acre (bu.).....	25.2	31.0	36.9	Milk per cow (cwt).....	75	101	127
Hours per 100 bushel.....	12	9	7	Hours per cwt of milk.....	1.2	.6	.2
Hay: Hours per acre ¹	5.0	3.7	3.0	Cattle, exc. milk cows: Hours per cwt of beef produced ³	2.6	1.7	.9
Yield per acre (sh. tons).....	1.77	2.12	2.45	Hogs: Hours per cwt produced ³	1.9	1.0	.3
Hours per sh. ton.....	2.8	1.8	1.2	Rate of lay ⁴	212	225	246
Potatoes: Hours per acre ¹	48.0	41.6	32.6	Hours per 100 eggs produced.....	.6	.3	.2
Yield per acre (cwt).....	195	234	284	Broilers: Hours per 100 birds.....	3	1	.4
Hours per sh. ton.....	5	4	2	Hours per cwt produced ³.....	.8	.3	.1
Cotton: Hours per acre ¹	47	18	5	Turkeys: Hours per cwt produced ³	2.4	.8	.2
Yield per acre (lb.).....	475	470	581				
Hours per bale.....	47	18	5				

¹ Labor-hours per acre harvested, including pre-harvest work on acreages abandoned, grazed, and turned under. ² Per acre planted and harvested. ³ Liveweight production. ⁴ Laying flocks and eggs. ⁵ Eggs produced during year divided by average number of hens and pullets of laying age on hand during year.

Source: U.S. Dept. of Agriculture, Economic Research Service. In *Agricultural Statistics*, annual.

Agriculture

NO. 1111. FARM PRODUCTIVITY—LABOR-HOURS AND INDEXES OF FARM OUTPUT PER HOUR:
1960 TO 1986[See also *Historical Statistics, Colonial Times to 1970*, series K 407-413, K 430-444, and W 67-81]

ITEM	1960	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
Hours of labor required on farms ¹ (bill.)	9.8	5.9	5.0	4.4	4.3	4.3	4.2	4.0	3.7	3.8	3.7	3.5
All productive livestock (bill.)	3.8	2.3	1.7	1.4	1.3	1.3	1.2	1.1	1.1	1.0	1.0	.9
All crops (bill.)	2.4	2.8	2.6	2.4	2.4	2.4	2.4	2.4	2.1	2.3	2.2	2.1
Farm maintenance (bill.)	3.1	.8	.7	.6	.6	.6	.6	.5	.5	.5	.5	.5
INDEX (1977 = 100)												
Farm output per hour	37	66	89	108	119	113	131	133	122	138	151	150
All livestock and products	32	64	85	109	117	129	136	143	154	162	175	183
Meat animals	40	67	87	108	117	127	136	138	149	153	165	169
Milk cows	27	57	81	109	122	135	150	164	187	212	244	266
Poultry	25	55	81	109	119	125	135	142	152	162	173	182
All crops	41	70	89	105	118	105	121	124	105	123	134	133
Feed grains	33	62	90	111	125	107	132	136	96	133	149	150
Hay and forage	43	74	94	109	116	109	122	128	122	132	134	139
Food grains	73	93	101	104	115	116	129	129	131	140	142	135
Vegetables	69	91	93	104	109	113	119	120	119	117	123	123
Fruits and nuts	61	84	97	103	104	112	108	115	115	116	118	120
Sugar crops	52	79	97	103	103	104	111	108	108	108	109	113
Cotton	13	31	57	100	132	103	145	149	141	172	192	160
Tobacco	46	79	97	109	99	104	117	122	106	129	137	126
Oil crops	52	72	88	98	110	90	110	113	96	109	133	131

¹ Represents labor used on crops, livestock, and farm maintenance. ² Includes work on farm gardens. ³ Includes work on horses and mules.Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics*, annual. Also in *Agricultural Statistics*, annual.

No. 1112. CROPLAND USED FOR CROPS AND ACREAGES OF CROPS HARVESTED: 1960 TO 1987

[See also *Historical Statistics, Colonial Times to 1970*, series K 498-501]

YEAR	CROPLAND USED FOR CROPS				Index of crop production per acre (1977 = 100)	Total (mil. acres)	ACREAGES OF CROPS HARVESTED ²					
	Number (mil. acres)			Index (1977 = 100)			Used to produce goods for—					
	Total	Crop-land harvested ¹	Crop failure				Domestic use	Exports				
							Amount (mil. acres)	Per capita (acres) ³	Amount (mil. acres)	Percent of total		
1960	355	317	6	32	94	77	324	4,260	1.41	64	19.8	
1970	332	289	5	38	88	88	293	221	1.08	72	24.6	
1975	367	330	6	31	97	96	336	236	1.09	100	29.8	
1978	369	330	7	32	97	105	338	224	1.00	114	33.7	
1979	378	340	6	32	100	113	348	223	.99	125	35.9	
1980	382	342	10	30	101	100	352	215	.94	137	38.9	
1981	387	351	6	30	102	115	366	237	1.03	129	35.2	
1982	383	347	5	31	101	116	362	249	1.07	113	31.2	
1983	333	294	5	34	88	100	306	182	.77	124	40.5	
1984	373	337	6	30	99	112	348	252	1.06	95	27.6	
1985	372	334	7	31	98	120	342	263	1.10	79	23.1	
1986	357	316	9	32	94	116	325	229	.95	96	29.5	
1987	330	293	6	32	87	122	301	194	.80	107	35.5	

¹ Land supporting one or more harvested crops. ² Area in principal crops harvested as reported by Crop Reporting Board plus acreages in fruits, tree nuts, and farm gardens. ³ Based on Bureau of the Census estimated total population, including Armed Forces overseas, as of July 1. * Includes feed for workstock, not shown separately.Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics*, annual. Also in *Agricultural Statistics*, annual.

Farm Output Indexes—Production and Exports

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No. 1113. FARM OUTPUT INDEXES: 1960 TO 1987

[1977 = 100. See also *Historical Statistics, Colonial Times to 1970*, series K 414-429]

ITEM	1960	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987, prev.
Farm output ¹	76	84	95	111	104	118	116	96	112	118	111	109
Per unit of total input	76	87	99	105	101	116	118	118	118	128	127	(NA)
Gross production:												
Livestock and products ²	82	98	95	104	108	109	107	109	107	110	110	111
Meat animals	80	102	97	103	107	106	101	104	101	102	100	98
Dairy products	95	95	94	101	105	108	110	114	110	117	117	116
Poultry and eggs	68	93	92	114	115	119	119	120	123	128	133	143
Crops ³	72	77	93	113	101	117	117	88	111	118	109	106
Feed grains...	69	71	91	116	97	121	122	67	116	134	123	105
Hay and forage...	83	92	100	108	98	106	109	100	107	106	106	102
Food grains...	66	69	108	108	121	144	138	117	129	121	107	106
Vegetables...	88	96	97	107	104	111	116	107	117	122	117	(NA)
Fruits and nuts...	89	81	98	105	119	111	113	110	114	119	112	(NA)
Sugar crops...	80	95	114	94	97	107	96	93	95	87	106	112
Cotton...	102	72	58	102	79	109	85	55	91	94	69	102
Tobacco...	102	100	114	80	93	108	104	75	90	81	63	84
Oil crops...	38	68	86	129	99	114	121	91	108	117	110	106

NA Not available. ¹Annual production available for eventual human use. ²Includes livestock products not shown separately and excludes horses and mules. ³Includes crops not shown separately.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics*, 1987. Also in *Agricultural Statistics*, annual.

No. 1114. SELECTED FARM PRODUCTS—PRODUCTION AND EXPORTS: 1970 TO 1987

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Corn for grain: Production	Mill. bu.	4,152	5,841	6,639	8,119	8,235	4,175	7,874	8,877	8,250	7,064
Exports ¹	Mill. bu.	517	1,711	2,355	2,010	1,834	1,902	1,865	1,241	1,504	1,700
Percent of production	Percent	12.5	28.3	35.5	24.8	22.3	45.5	24.3	14.0	18.2	24.1
Soybeans, for beans: Production	Mill. bu.	1,127	1,548	1,798	1,989	2,190	1,636	1,861	2,099	1,940	1,905
Exports ¹	Mill. bu.	434	555	724	929	805	743	598	740	757	800
Percent of production	Percent	38.5	35.9	40.3	46.7	41.3	45.4	32.1	35.7	38.0	42.0
Wheat: Production	Mill. bu.	1,352	2,127	2,381	2,785	2,765	2,420	2,595	2,425	2,092	2,105
Exports ¹	Mill. bu.	741	1,173	1,514	1,771	1,509	1,429	1,424	915	1,004	1,800
Percent of production	Percent	54.8	55.2	63.6	63.6	54.6	59.0	54.9	37.7	48.0	76.0
Cotton: Production	Mil. bales ²	10.2	8.3	11.1	15.6	12.0	7.8	13.0	13.4	9.7	14.8
Exports ¹	Mil. bales ²	3.9	3.3	5.9	6.6	5.2	6.8	6.2	2.0	6.7	6.6
Percent of production	Percent	36.2	35.8	53.2	42.3	43.3	87.2	47.7	14.9	89.1	44.6
Tobacco: ³ Production	Mil. lb.	1,908	2,182	1,788	2,064	1,994	1,429	1,728	1,611	1,164	1,195
Exports ¹	Mil. lb.	639	655	649	697	628	596	666	620	596	588
Percent of production	Percent	33.5	30.0	36.3	33.8	31.5	41.7	38.5	41.0	51.2	47.5

¹Represents marketing year for each product. ²480 lb. net weight bales. ³Farm sales weight.

Source: U.S. Dept. of Agriculture, Economic Research Service. In *Agricultural Statistics*, annual.

No. 1115. SELECTED FARM PRODUCTS—U.S. AND WORLD PRODUCTION AND EXPORTS: 1984 TO 1986

[in metric tons, except as indicated. Metric ton = 1.102 short tons or .984 long tons]

ITEM	Unit	AMOUNT						U.S. AS PERCENT OF WORLD		
		U.S.			World			1984	1985	1986
		1984	1985	1986	1984	1985	1986			
PRODUCTION¹										
Wheat	Million	71	66	57	512	500	530	13.8	13.2	10.8
Corn for grain	Million	195	225	210	459	482	477	42.5	46.8	44.0
Soybeans	Million	50.6	57.1	52.8	93.1	97.0	97.9	54.4	58.9	53.9
Rice, rough	Million	6.3	8.5	6.8	469	470	468	1.3	1.4	1.4
Tobacco, unmanufactured ²	1,000	784	695	528	6,493	6,883	6,025	12.0	10.0	8.8
Vegetable oils	Million	6.3	6.4	6.7	44.8	47.9	49.1	14.0	13.3	13.6
Cotton	Million bales ³	13.0	13.4	9.7	58.2	79.6	70.4	14.7	16.9	13.8
EXPORTS⁴										
Wheat ⁵	Million	38.1	26.0	28.4	107.0	85.0	90.7	35.6	29.4	31.3
Corn	Million	46.7	31.5	39.4	86.6	64.5	56.2	70.1	57.8	70.1
Soybeans	Million	16.3	20.2	20.6	25.3	26.1	28.5	64.4	77.4	72.3
Rice, milled basis	Million	2.1	1.9	2.4	12.5	11.5	12.8	16.7	16.5	18.8
Tobacco, unmanufactured ⁶	1,000	246	249	217	1,408	1,414	1,350	17.5	17.6	16.1
Vegetable oils	Million	1.2	1.1	1.0	14.5	15.5	16.2	8.3	7.1	6.2
Cotton	Million bales ³	6.2	2.0	6.7	20.2	20.2	25.9	30.8	9.7	25.8

¹Production years vary by commodity. In most cases, includes harvests from July 1 of the year shown through June 30 of the following year.

²Farm sales weight basis. ³Bales of 480 lb. net weight. ⁴Trade years may vary by commodity.

⁵Includes wheat flour on a grain equivalent. ⁶Dried weight basis.

Source: U.S. Department of Agriculture, Foreign Agricultural Service, *Foreign Agricultural Commodity Circular Series*, periodicals.

Agriculture

NO. 1116. AGRICULTURAL EXPORTS AND IMPORTS—VALUE: 1970 TO 1987

[In billions of dollars, except percent. Includes Puerto Rico. Excludes forest products and distilled liquors; includes crude rubber and similar gums (now mainly plantation products). Includes shipments under foreign aid programs. See also *Historical Statistics, Colonial Times to 1970*, series K 251-255]

YEAR	Trade balance	Exports, domestic products	Percent of all exports	Imports for consumption	Percent of all imports	YEAR	Trade balance	Exports, domestic products	Percent of all exports	Imports for consumption	Percent of all imports
1970-1974, avg ...	5.5	12.8	21	7.3	12	1978...	14.6	29.4	21	14.8	9
1975-1979, avg ...	13.5	26.5	20	13.0	11	1979...	18.0	34.7	19	16.7	8
1980-1984, avg ...	21.9	39.0	18	17.1	6	1980...	23.9	41.2	18	17.4	7
1970...	1.5	7.3	17	5.8	15	1981...	26.6	43.3	18	16.8	6
1971...	1.9	7.7	18	5.8	13	1982...	21.2	36.6	17	15.4	6
1972...	2.8	9.4	19	6.5	12	1983...	19.5	36.1	18	16.5	7
1973...	9.3	17.7	25	8.4	12	1984...	18.5	37.8	17	19.3	6
1974...	11.7	21.9	23	10.2	10	1985...	9.1	29.0	13	20.0	6
1975...	12.6	21.9	21	9.3	10	1986...	4.8	26.2	12	21.4	6
1976...	12.0	23.0	20	11.0	9	1987...	8.2	28.6	11	20.4	5
1977...	10.2	23.6	20	13.4	9						

Source: U.S. Dept. of Agriculture, Economic Research Service, *U.S. Foreign Agricultural Trade Statistical Report*, annual, and *Foreign Agricultural Trade of the United States*, Jan.-Feb. issues. Also in *Agricultural Statistics*, annual.

NO. 1117. AGRICULTURAL EXPORTS—VALUE, BY PRINCIPAL COMMODITIES AND SELECTED COUNTRIES OF DESTINATION: 1970 TO 1987

[See headnote, table 1116. Data by country of destination not adjusted for transshipments prior to 1983]

COMMODITY AND COUNTRY	VALUE (mil. dol.)								PERCENT		
	1970	1975	1980	1983	1984	1985	1986	1987	1970	1980	1987
Total agricultural exports ¹ ...	7,255	21,859	41,233	36,099	37,804	29,041	26,222	28,637	100.0	100.0	100.0
Grains and feeds ² ...	2,720	11,932	19,117	16,250	17,163	11,882	8,656	9,423	37.5	46.4	32.9
Feed grains and products	1,093	5,283	9,831	7,351	8,204	5,112	3,178	3,917	15.1	23.8	13.7
Corn	818	4,422	8,492	6,367	6,999	5,206	2,605	3,209	11.3	20.6	11.2
Wheat and products	1,136	5,253	6,680	5,560	6,740	3,898	3,290	3,279	15.7	16.2	11.5
Rice	313	855	1,289	926	845	685	625	576	4.3	3.1	2.0
Oilseeds and products ² ...	1,931	4,452	9,393	8,716	8,369	5,734	4,647	6,378	26.6	22.8	22.3
Soybeans	1,228	2,665	5,880	5,913	5,418	3,732	4,326	4,306	16.9	14.3	15.0
Soybean oil cake and meal	344	639	1,665	1,527	997	870	1,223	1,213	4.7	4.0	4.2
Vegetable oils and waxes	295	635	1,218	888	1,270	870	672	626	4.1	2.9	2.2
Soybean oil	194	269	689	424	757	432	253	283	2.7	1.7	.9
Animals and animal products ² ...	865	1,686	3,768	3,787	4,228	4,150	4,547	5,154	11.9	9.1	18.0
Hides and skins, incl. furskins	187	407	1,046	1,010	1,383	1,295	1,522	1,791	2.6	2.5	6.0
Cattle hides	130	260	623	742	1,086	1,007	1,219	1,328	1.8	1.5	4.6
Meats and meat products	132	432	890	916	928	905	1,130	1,366	1.8	2.2	4.8
Fats, oils, and greases	246	360	768	600	698	619	413	431	3.4	1.9	1.5
Poultry and poultry products	82	157	603	428	415	384	504	502	1.1	1.5	2.1
Cotton, excluding linters	372	991	2,864	1,817	2,441	1,633	812	1,631	5.1	6.9	5.7
Tobacco, unmanufactured	517	852	1,334	1,462	1,511	1,521	1,223	1,090	7.1	3.2	3.8
Fruits and preparations...	334	689	1,335	1,249	1,243	1,198	1,306	1,483	4.6	3.2	5.2
Fresh fruits	164	404	739	829	758	743	851	936	2.3	1.8	3.3
Vegetables and preparations	219	505	1,188	980	1,002	930	1,085	1,158	3.0	2.9	4.0
Nuts and preparations	69	169	757	498	604	683	753	804	1.0	1.8	2.8
Other	232	573	1,477	1,242	1,243	1,282	1,373	1,516	3.2	3.6	5.3
Asia ¹ ...	2,717	7,620	14,886	14,058	14,907	11,191	10,617	12,513	37.5	36.1	43.7
Japan	1,214	3,082	6,111	6,251	6,782	5,409	5,141	5,700	16.7	14.8	19.9
South Korea	224	830	1,797	1,840	1,650	1,413	1,306	1,833	3.1	4.4	6.4
China: Taiwan	134	585	1,095	1,308	1,458	1,231	1,171	1,285	1.9	2.7	4.5
Iraq	2	86	255	342	535	326	360	532	-.6	1.8	.9
Saudi Arabia	28	117	375	445	482	351	397	483	3.3	1.7	.7
Western Europe ^{1,2} ...	2,534	7,177	11,744	9,998	8,837	8,937	7,056	7,264	34.9	28.5	25.4
European Economic Community ⁴ ...	2,316	6,769	11,033	9,299	8,257	6,527	6,835	29.4	22.4	23.9	
Netherlands	526	1,722	3,412	2,576	2,323	1,869	2,073	1,975	7.3	8.3	
West Germany	529	1,564	1,831	1,529	1,065	944	1,048	1,284	7.3	4.4	4.5
United Kingdom	411	588	928	823	754	604	681	654	5.7	2.3	2.3
Italy	210	798	1,094	731	806	689	727	697	2.9	2.7	2.4
France	164	408	748	485	507	403	439	523	2.3	1.8	
Spain ⁵	143	776	1,129	1,264	1,029	837	703	647	2.0	2.7	2.3
Latin America ¹ ...	688	2,274	6,150	5,213	5,263	4,224	3,881	3,671	9.5	14.9	12.8
Mexico	185	588	2,468	1,942	1,993	1,439	1,080	1,201	2.1	6.0	4.2
Venezuela	98	277	701	665	783	638	456	494	1.4	1.7	.7
Canada	826	1,304	1,852	1,844	1,963	1,622	1,542	1,809	11.4	4.5	6.3
Soviet Union	16	1,133	1,047	1,473	2,878	1,923	658	938	.2	2.5	3.3
Eastern Europe	169	616	2,071	839	758	479	434	436	2.3	5.0	1.5
Africa ¹	254	1,134	2,179	2,458	2,972	2,488	2,008	1,766	3.5	5.3	6.2
Egypt	26	425	770	970	909	891	811	679	4.1	1.9	

¹ Represents or rounds to zero. ² Includes areas not shown separately. ³ Includes Canary Islands and Madeira Islands for all years. ⁴ Includes Belgium, Luxembourg, Denmark, Greece, Ireland, and Portugal, not shown separately. As of Jan. 1, 1973, United Kingdom, Denmark, and Ireland became members of EEC. As of Jan. 1, 1981, Greece became a member of EEC. As of Jan. 1, 1986, Spain and Portugal became members of EEC. For consistency, data for all years are shown on same basis. ⁵ As of Jan. 1, 1984, includes Canary Islands and Spanish Africa, not elsewhere classified.

Source: U.S. Dept. of Agriculture, Economic Research Service, *U.S. Foreign Agricultural Trade Statistical Report*, annual. Also in *Agricultural Statistics*, annual.

Food for Peace Programs—Exports—Imports

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No. 1118. U.S. SALES AND DONATIONS UNDER FOOD FOR PEACE (PUBLIC LAW 480) PROGRAMS— TOTAL, 1954 TO 1987, AND BY SELECTED COUNTRY, 1987

[In millions of dollars. For fiscal years ending in year shown; see text, section 9]

YEAR	Total	Title I sales (loans) ¹	TITLE II DONATIONS			COUNTRY	1987	
			Total	Voluntary relief agencies	Emergency relief and other ²		Sales	Donations
1954-1987, total	41,825	25,367	16,458		10,373	6,085	Total ³	889.0
							Bangladesh.....	88.1
1970.....	1,142	711	432		181	250	India.....	20.6
1975.....	1,328	668	461		266	194	Sudan.....	92.4
1980.....	1,436	843	593		340	253	Pakistan.....	.6
1981.....	1,542	774	768		471	297	Morocco.....	51.6
1982.....	1,314	690	624		456	188	El Salvador.....	12.5
1983.....	1,373	773	600		422	178	Jamaica.....	42.0
1984.....	1,524	784	740		523	217	Philippines.....	.7
1985.....	2,052	984	1,088		749	319	Bolivia.....	39.2
1986.....	1,763	1,004	759		587	172	Indonesia.....	23.9
1987.....	1,442	889	553		343	210	Peru.....	12.6
							Sri Lanka.....	32.0
								9.6
								24.1
								32.2
								28.8
								3.2

— Represents zero. ¹ Includes Title III, Food for Development program.
food programs. ³ Includes other countries not shown separately.

² Includes economic development and world

Source: U.S. Agency for International Development, *U.S. Overseas Loans and Grants and Assistance From International Organizations*, annual.

NO. 1119. AGRICULTURAL EXPORTS—ESTIMATED VALUE, BY LEADING STATES: 1987

[In millions of dollars. For year ending September 30]

COMMODITY	Total value	FIVE LEADING STATES									
		1		2		3		4		5	
		State	Value	State	Value	State	Value	State	Value	State	Value
All commodities ¹	27,859.2	CA	2,837.1	IA	2,263.6	JL	2,115.3	NE	1,578.3	TX	1,521.3
Soybeans and products	5,738.5	IL	1,048.0	IA	1,039.8	MO	508.4	MN	487.9	IN	482.4
Feed grains and products	4,661.7	IA	845.5	IL	738.4	NE	535.4	MN	395.0	IN	361.2
Wheat and products	3,115.8	ND	541.0	KS	438.1	WA	261.8	OK	196.3	MT	190.6
Hides and skins.....	1,665.6	KS	267.3	TX	239.0	NE	234.1	IA	81.5	CO	78.5
Live animals and meat products.....	1,630.2	KS	221.4	TX	206.4	NE	202.2	KY	181.9	IA	103.7
Fruits and preparations	1,456.0	CA	893.1	FL	283.9	WA	123.4	OR	46.8	AZ	39.3
Cotton.....	1,429.4	TX	371.5	CA	328.8	MS	175.4	AZ	120.6	LA	99.4
Tobacco.....	1,203.9	NC	547.1	KY	231.2	VA	99.3	SC	94.4	GA	84.8
Vegetables and preparations	1,177.7	CA	505.6	WA	107.9	ID	64.5	WI	58.9	MN	56.1
Rice.....	550.7	AR	256.0	TX	87.1	LA	79.8	CA	59.0	MS	52.1

¹ Includes other commodities not shown separately.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Agricultural Trade of the United States*, Mar./Apr. 1988.

NO. 1120. AGRICULTURAL IMPORTS—VALUE BY SELECTED COMMODITY, 1970 TO 1987, AND BY LEADING COUNTRIES OF ORIGIN, 1987

[In millions of dollars]

COMMODITY	1970	1975	1980	1983	1984	1985	1986	1987	Leading countries of origin, 1987
Total	5,770	9,293	17,386	16,530	19,334	19,968	21,440	20,398	Canada, Mexico, Brazil.
Competitive products.....	3,609	6,198	10,374	11,002	12,619	13,067	13,432	13,781	Canada, Mexico, Australia.
Beef and veal	680	661	1,780	1,363	1,228	1,276	1,288	1,562	Australia, New Zealand,
Pork.....	272	430	486	611	755	861	1,001	1,096	Argentina,
Dairy products.....	128	215	488	701	773	765	827	831	Canada, Denmark, Poland.
Fruits and preparations.....	146	247	564	1,013	1,475	1,738	1,599	1,718	New Zealand, Ireland, Italy.
Vegetables and preparations	296	376	884	1,074	1,331	1,385	1,802	1,535	Brazil, Chile, Mexico.
Wine.....	145	259	692	844	945	998	1,017	986	Mexico, Spain, China: Taiwan,
Malt beverages.....	32	94	387	515	577	633	791	882	France, Italy, Spain.
Grains and feeds.....	99	222	371	457	566	623	691	748	Netherlands, Mexico, Canada.
Sugar and related products.....	798	2,047	2,205	1,304	1,442	1,190	991	630	Canada, Italy, Denmark.
Noncompetitive products.....	2,161	3,095	6,992	5,528	6,718	6,902	8,008	6,618	Dominican Rep., Brazil.
Coffee and products	1,213	1,673	4,186	2,771	3,271	3,322	4,618	2,908	Brazil, Indonesia, Colombia.
Cocoa and products	279	466	920	837	1,132	1,350	1,127	1,194	Brazil, Colombia, Mexico.
Bananas and plantains.....	194	230	430	600	665	763	759	819	Brazil, Ivory Coast, Ecuador.
Rubber, crude natural.....	236	365	817	855	824	654	622	760	Honduras, Ecuador, Thailand.
Indonesia, Malaysia, Thailand.									

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Agricultural Trade of the United States*, annual.

Agriculture

NO. 1121. PRINCIPAL CROPS—PRODUCTION, SUPPLY AND DISAPPEARANCE: 1983 TO 1987

[Marketing year beginning May 1 for hay, June 1 for wheat and barley, August 1 for cotton and rice, September 1 for soybeans, corn, and sorghum. Acreage, production, and yield of all crops periodically revised on basis of census data. See also *Historical Statistics, Colonial Times to 1970*, series K 506-563]

CROP AND YEAR	ACREAGE (mil.)—			Yield per acre	Production	Farm price ²	Farm value (mill. dol.)	Total supply ³	DISAPPEARANCE		Ending stocks
	Set aside ¹	Plant-ed	Harvested						Total	Exports	
Corn for grain:											
1983	32.2	60.2	51.5	Bu.	81.1	Mil. bu.	\$/bu.	13,635	7,701	6,684	1,902
1984	3.9	80.5	71.9	106.7	7,674	2.63	20,085	8,684	7,036	1,865	1,648
1985	5.4	83.4	75.2	118.0	8,877	2.23	19,522	10,536	6,496	1,241	4,040
1986	13.6	76.7	69.2	119.3	8,250	1.50	12,541	12,292	7,410	1,504	4,882
1987	21.1	65.7	59.2	119.4	7,064	1.69	12,130	11,949	7,586	1,700	4,365
Soybeans for beans:											
1983	-	63.8	62.5	Bu.	1,636	Mil. bu.	\$/bu.	1,981	1,805	743	176
1984	-	67.8	62.1	28.1	1,861	5.78	10,748	2,037	1,721	598	318
1985	-	63.1	61.6	34.1	2,099	5.05	10,681	2,415	1,979	740	556
1986	-	60.4	58.3	33.3	1,940	4.78	9,263	2,476	2,040	757	456
1987	-	57.4	56.4	33.7	1,805	5.43	10,365	2,341	2,066	800	275
Hay:											
1983	-	(NA)	59.7	Sh. tons	141	Mil. sh. tons	\$/ton	168.9	148.8	(NA)	20.1
1984	-	(NA)	61.4	2.36	151	5.6	75.80	10,204	170.7	(NA)	26.9
1985	-	(NA)	60.4	2.46	149	5.6	67.80	9,437	175.5	(NA)	25.7
1986	-	(NA)	62.4	2.49	156	5.6	59.70	8,611	182.2	(NA)	32.3
1987	-	(NA)	60.8	2.46	149	5.6	66.40	9,103	161.5	(NA)	27.3
Wheat:											
1983	29.8	76.4	61.4	Bu.	39.4	Mil. bu.	\$/bu.	8,494	3,839	2,540	1,429
1984	18.5	79.2	66.9	39.8	2,595	3.39	8,797	4,003	2,578	1,424	1,425
1985	18.8	75.6	64.7	37.5	2,425	3.08	7,374	3,866	1,961	915	1,905
1986	20.4	72.1	60.7	34.4	2,092	2.42	5,044	4,018	2,197	1,004	1,821
1987	20.1	65.8	55.9	37.6	2,105	2.55	5,371	3,841	2,710	1,600	1,231
Cotton:											
1983	6.8	7.9	7.3	Lb. bales ⁷	508	Mil. bales ⁷	\$/lb.	2,478	15,721	12,714	6,786
1984	2.5	11.1	10.4	600	8 13.0	57.8	3,603	15,781	11,755	6,215	9 4,102
1985	3.8	10.7	10.2	630	8 13.4	56.3	3,559	17,567	8,359	1,960	9 3,948
1986	3.4	10.0	8.5	552	8 9.7	52.4	2,449	19,082	14,135	6,684	9 5,025
1987	3.2	10.4	10.0	706	8 14.8	64.2	4,547	19,800	14,300	6,600	9 6,600
Tobacco: ¹⁰											
1983	(NA)	(NA)	.8	Lb.	1,811	Mil. lb.	\$/lb.	2,496	5,949	1,532	596
1984	(NA)	(NA)	.8	2,183	1,728	5.6	1,81	3,121	5,545	1,621	666
1985	(NA)	(NA)	.7	2,197	1,511	5.6	1,85	2,486	5,435	1,820	620
1986	(NA)	(NA)	.6	2,001	1,164	5.6	1,52	1,771	4,978	1,572	596
1987	(NA)	(NA)	.6	2,025	1,196	5.6	1,57	1,877	4,636	(NA)	568
Sorghum for grain:											
1983	5.7	11.9	10.0	Bu.	48.7	Mil. bu.	\$/bu.	1,337	927	839	245
1984	.6	17.3	15.4	56.4	866	2.39	2,139	1,154	854	297	300
1985	.9	18.3	16.8	66.8	1,120	1.93	2,243	1,421	870	178	551
1986	2.3	15.3	13.9	67.7	938	1.97	1,322	1,493	758	198	732
1987	3.9	11.8	10.5	69.9	741	1.56	1,156	1,472	790	225	662
Barley:											
1983	1.1	10.4	9.7	Bu.	52.3	Mil. bu.	\$/bu.	2,47	1,257	733	543
1984	.5	12.0	11.2	53.4	599	2.29	1,372	799	551	77	247
1985	.7	13.2	11.6	51.0	591	1.98	1,133	848	523	22	325
1986	1.8	13.1	12.0	50.8	611	1.61	994	942	807	137	395
1987	2.9	11.0	10.0	52.8	527	1.66	980	878	580	130	298
Rice, rough:											
1983	1.7	2.2	2.2	Lb. cwt.	4,598	Mil. cwt.	\$/cwt.	857	172	125	70
1984	.8	2.8	2.8	4,954	139	8.04	1,118	187	123	62	65
1985	1.3	2.5	2.5	5,414	134	6.53	893	202	125	59	77
1986	1.3	2.4	2.4	5,851	133	3.75	496	213	162	85	52
1987	1.2	2.4	2.3	5,482	128	7.20	920	182	151	70	32

¹ Represents zero. ² NA Not available. ³ Acreage set aside under diversion, PIK (payment-in-kind) and acreage reduction programs. ⁴ Except as noted, marketing year average price. U.S. prices are computed by weighting U.S. monthly prices by estimated monthly marketings and do not include an allowance for outstanding loans and government purchases and payments. ⁵ Comprises production, imports, and beginning stocks. ⁶ Includes feed, residual, and other domestic uses not shown separately. ⁷ Prices are for hay sold baled. ⁸ Season average prices received by farmers. U.S. prices are computed by weighting State prices by estimated sales and include an allowance for outstanding loans and government purchases, if any, for crops under government programs. ⁹ Belts of 480 pounds, net weight. ¹⁰ State production figures, which conform with U.S. U.S. totals. ¹¹ Stock estimates based on Census Bureau data which results in an unaccounted difference between supply and use estimates and changes in ending stocks. ¹² Flue-cured and cigar wrapper, crop year July-June; all other types October-September. Farm-sales-weight basis. ¹³ Includes tobacco carried over on farms.

Source: Production—U.S. Dept. of Agriculture, National Agricultural Statistics Service. In *Crop Production*, annual. *Field Crops* (Statistical Bulletin No. 708); *Crop Values* (Statistical Bulletin No. 729). Supply and disappearance—U.S. Dept. of Agriculture, Economic Research Service, *Feed Situation*, quarterly; *Fats and Oils Situation*, quarterly; *Wheat Situation*, quarterly; *Tobacco Situation*, quarterly; *Cotton and Wool Outlook Statistics*, periodic; and *Agricultural Supply and Demand Estimates*, periodic. All data are also in *Agricultural Statistics*, annual; and *Agricultural Outlook*, monthly.

Crops—Acreage and Value

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No. 1122. CROPS—ACREAGE AND VALUE, 1985 TO 1987, AND ORDER OF VALUE, 1987, BY STATE

STATE	ACREAGE HARVESTED (1,000)			FARM VALUE (mill. dol.)			Crops in order of value, 1987
	1985	1986	1987, prel.	1985	1986	1987, prel.	
						Value	Rank
U.S. ¹	330,063	311,519	289,070	74,605	60,582	62,939	(X)
AL	3,321	2,520	2,267	686	460	504	33
AZ	809	693	738	739	689	865	25
AR	7,778	7,359	7,052	1,394	945	1,335	18
CA	5,609	5,070	4,922	8,099	7,841	8,149	45
CO	6,846	6,167	5,654	1,099	895	922	24
CT	151	140	140	70	76	70	47
DE	554	536	531	124	91	83	45
FL	1,344	1,224	1,117	2,596	2,402	2,252	9
GA	5,071	3,881	3,604	1,380	1,031	1,085	23
HI	89	90	87	373	404	*159	41
ID	4,738	4,730	4,141	1,277	1,329	1,107	20
IL	23,111	21,900	20,035	5,984	4,387	4,319	2
IN	12,362	11,680	10,487	2,919	2,080	2,377	7
IA	25,030	23,798	20,956	5,422	4,332	4,290	3
KS	21,615	20,674	19,874	2,745	2,036	2,263	8
KY	5,484	5,131	4,943	1,614	1,165	1,208	19
LA	4,632	4,300	3,855	919	806	820	31
ME	403	385	372	132	183	164	40
MD	1,639	1,580	1,499	390	271	259	36
MA	164	166	164	160	174	153	42
MI	7,685	6,890	6,285	1,786	1,366	1,270	18
MN	20,426	19,096	17,497	3,811	3,089	3,081	5
MS	5,604	4,878	4,844	1,128	701	1,094	21
MO	14,247	13,202	12,409	2,349	1,775	1,924	11
MT	7,613	9,415	9,242	523	770	835	29
NE	18,509	17,533	15,777	3,503	2,553	2,533	6
NV	565	584	577	125	124	127	43
NH	113	112	108	30	28	26	48
NJ	466	437	389	216	190	175	39
NM	1,381	1,179	973	340	261	307	35
NY	4,048	3,855	3,570	906	864	833	30
NC	5,418	4,581	4,186	1,858	1,402	1,471	14
ND	20,495	20,571	19,470	2,156	1,832	1,684	21
OH	10,845	10,207	9,698	2,572	1,996	2,086	10
OK	8,978	8,566	8,347	975	785	862	26
OR	2,799	2,711	2,345	908	867	847	28
PA	4,568	4,411	4,291	1,172	1,065	1,090	22
RI	17	15	13	6	6	5	49
SC	2,778	2,129	1,916	616	374	490	34
SD	15,246	15,986	14,761	1,539	1,244	1,317	17
TN	5,136	4,586	4,475	1,032	713	854	27
TX	21,094	17,749	16,250	3,753	2,522	3,424	4
UT	1,129	1,132	1,060	233	217	231	37
VT	540	530	497	86	80	74	46
VA	3,002	2,789	2,630	684	542	592	32
WA	5,052	4,713	3,937	1,784	1,813	1,578	13
WV	732	683	732	120	87	94	44
WI	9,221	9,013	8,218	2,060	1,553	1,460	15
WY	1,689	1,963	1,856	236	240	190	38

X Not applicable.

¹ Excludes Alaska.² Incomplete data.³ For sugar and seed.Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, annual; and *Crop Values*, annual.

No. 1123. PRICE SUPPORT OPERATIONS—SELECTED COMMODITIES: 1983 TO 1987

[For explanation of price support operations, see text, section 23]

CROP AND YEAR	Sup- port or target price ¹ (dol. per bu.)	Na- tional aver- age loan rate (dol. per bu.)	QUANTITY UNDER SUPPORT ²		CROP AND YEAR	Sup- port or target price ¹ (dol. per bu.)	Na- tional aver- age loan rate (dol. per bu.)	QUANTITY UNDER SUPPORT ²	
			Amount (mil. bu.)	Percent of produc- tion				Amount (mil. bu.)	Percent of produc- tion
Corn: ³					Cotton: ⁷				
1983	2.86	2.65	162	4	1983				
1984	3.03	2.55	1,097	14	1984	76.0	55.0	1,744	22
1985	3.03	2.55	3,168	36	1985	81.0	55.0	2,957	23
1986	3.03	1.92	4,888	59	1986	81.0	57.3	7,231	54
1987	3.03	1.82	5,400	59	1987	79.4	52.3	6,170	63
Soybeans: ³					Sorghum: ³				
1983	(x)	5.02	101	6	1983	Cents per lb.	1,000 bales ⁸		
1984	(x)	5.02	278	15	1984	76.0	55.0	1,744	22
1985	(x)	5.02	518	25	1985	81.0	55.0	2,957	23
1986	(x)	4.77	327	17	1986	81.0	57.3	7,231	54
1987	(x)	4.77	576	14	1987	79.4	52.3	6,170	63
Wheat: ⁶					Sorghum: ³	Dol. per cwt.	Mil. cwt.		
1983	4.30	3.65	695	26	1983	4.86	4.50	8	3
1984	4.38	3.30	284	11	1984	5.14	4.32	36	7
1985	4.28	3.30	843	35	1985	5.14	4.32	201	32
1986	4.38	2.40	515	25	1986	5.14	4.32	222	42
1987	4.38	2.28	5475	23	1987	5.14	3.11	5,210	51
Rice: ⁷					Rice: ⁷	Dol. per cwt.	Mil. cwt.		
1983					1983	11.40	8.14	40	40
1984					1984	11.80	8.00	58	42
1985					1985	11.80	8.00	75	56
1986					1986	11.80	7.20	122	99
1987					1987	11.86	6.84	5,126	89

X. Not applicable. ¹ Guaranteed on normal production from participating farms. ² Represents loans made, purchases, and purchase agreements entered into. ³ For years beginning September 1. ⁴ 1986 annual loan rates were reduced 4.3 percent for budget purposes (e.g. corn became \$1.84 per bu.). ⁵ Preliminary. ⁶ For years beginning June 1. ⁷ For years beginning August 1. ⁸ Bales of 480 lb. net weight.

Source: U.S. Dept. of Agriculture, Agricultural Stabilization and Conservation Service. Data published in *Agricultural Statistics*, annual.

No. 1124. CORN—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1985 TO 1987

[See *Historical Statistics, Colonial Times to 1970*, series K 502-505]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (bu.) ¹			PRODUCTION (mil. bu.) ¹			PRICE ² (dol. per bu.)			FARM VALUE (mil. dol.)		
	1985	1986	1987	1985	1986	1987	1985	1986	1987	1985	1986	1987	1985	1986	1987
U.S. ³	75,224	69,159	59,187	118.0	119.3	119.4	8,877	8,250	7,064	2.23	1.50	1.69	19,522	12,541	12,130
AL	325	270	250	75.0	57.0	72.0	24	15	18	2.30	1.80	1.80	56	29	32
CA	320	250	190	145.0	152.0	150.0	46	38	29	3.00	2.15	2.25	139	82	64
CO	745	710	690	139.0	140.0	155.0	104	99	107	2.37	1.60	1.80	245	159	183
DE	175	169	148	109.0	83.0	73.0	19	14	11	2.45	1.77	1.95	47	25	21
GA	975	730	610	84.0	58.0	84.0	82	42	51	2.39	1.93	2.10	196	82	108
IL	11,370	10,400	9,100	135.0	135.0	132.0	1,555	1,404	1,201	2.27	1.54	1.75	3,484	2,182	2,102
IN	6,150	5,700	4,680	123.0	122.0	135.0	756	695	632	2.20	1.53	1.80	1,684	1,084	1,137
IA	13,550	12,050	10,050	126.0	135.0	130.0	1,707	1,627	1,307	2.02	1.41	1.60	3,449	2,294	2,090
KS	1,170	1,335	1,180	130.0	136.0	120.0	152	182	142	2.37	1.60	1.80	360	290	255
KY	1,560	1,520	1,140	102.0	92.0	104.0	159	140	119	2.37	1.69	1.90	377	236	225
LA	205	385	213	114.0	116.0	105.0	23	45	22	2.60	1.75	1.85	61	78	41
MD	640	580	480	110.0	73.0	78.0	70	42	36	2.43	1.81	1.95	171	77	70
MI	2,730	2,450	1,950	105.0	105.0	95.0	287	257	185	2.14	1.43	1.70	613	368	315
MN	6,300	5,800	5,000	115.0	122.0	127.0	725	708	635	2.05	1.46	1.55	1,485	1,033	984
MS	115	180	185	68.0	75.0	80.0	8	14	15	2.90	2.00	2.10	23	27	31
MO	2,480	2,420	2,150	110.0	116.0	113.0	273	281	243	2.14	1.45	1.65	584	407	401
NE	7,450	7,000	6,200	128.0	130.0	131.0	954	896	812	2.22	1.52	1.70	2,117	1,362	1,381
NY	720	620	510	95.0	99.0	109.0	68	61	56	2.45	1.76	1.85	168	108	103
NC	1,825	1,360	1,150	79.0	69.0	60.0	128	94	69	2.43	1.78	2.00	312	167	138
ND	560	530	500	72.0	93.0	93.0	40	49	47	2.17	1.42	1.65	87	70	77
OH	4,030	3,720	3,020	127.0	128.0	120.0	512	476	362	2.21	1.50	1.75	1,131	714	634
PA	1,380	1,240	1,060	110.0	103.0	90.0	152	128	95	2.48	1.83	2.15	376	234	205
SC	520	480	375	88.0	46.0	78.0	46	21	29	2.15	1.80	1.75	98	58	51
SD	3,000	2,850	2,750	84.0	82.0	83.0	252	234	228	2.07	1.37	1.55	522	320	354
TN	810	770	580	98.0	94.0	91.0	79	57	53	2.30	1.65	1.75	183	94	92
TX	1,490	1,330	1,250	105.0	112.0	107.0	156	149	134	2.49	1.87	2.05	390	279	274
VA	550	400	300	99.0	54.0	63.0	54	22	19	2.40	1.70	1.90	131	37	36
WA	135	120	80	180	170	180	22	20	14	2.65	1.80	2.00	57	37	27
WI	3,350	3,100	2,800	107.0	118.0	118.0	358	366	330	2.19	1.46	1.70	785	534	562

¹ 56 pounds per bushel. ² Marketing year average prices; see text, section 23. ³ Includes other States not shown separately.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, annual; and *Crop Values*, annual.

Soybeans—Wheat—Cotton

649

NO. 1125. SOYBEANS FOR BEANS—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1985 TO 1987

[See *Historical Statistics, Colonial Times to 1970*, series K 521, for U.S. totals]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (bu.)			PRODUCTION (mil. bu.)			PRICE ¹ (dol. per bu.)			FARM VALUE (mil. dol.)		
	1985	1986	1987	1985	1986	1987	1985	1986	1987	1985	1986	1987	1985	1986	1987
Total ²	61,584	58,292	56,437	34.1	33.3	33.7	2,099	1,940	1,905	5.05	4.78	5.43	10,581	9,263	10,365
AR	3,700	3,300	3,150	26.5	20.0	22.0	98	66	69	5.19	4.97	5.75	509	328	398
GA	1,550	820	780	24.0	17.0	20.0	37	14	16	4.82	4.75	5.35	179	66	83
IL	9,000	9,000	8,500	42.5	40.0	38.0	383	360	323	5.17	4.91	5.50	1,978	1,788	1,776
IN	4,460	4,250	4,250	41.5	37.0	40.0	185	157	170	5.04	4.76	5.45	933	745	927
IA	8,150	8,450	7,900	38.0	41.5	43.5	310	351	344	4.99	4.73	5.35	1,545	1,659	1,839
KS	1,410	1,740	2,110	31.0	32.5	32.0	44	58	68	4.95	4.60	5.20	216	268	351
KY	1,230	1,120	960	34.0	32.0	25.0	42	36	24	5.26	4.97	5.50	220	178	132
LA	2,110	1,750	1,800	21.0	20.0	23.5	44	35	38	5.01	4.86	5.55	221	170	209
MI	1,080	930	1,090	32.0	31.0	35.0	35	29	38	4.83	4.67	5.30	170	135	202
MN	5,000	4,650	4,650	32.0	35.0	38.0	160	163	181	4.98	4.72	5.70	797	768	1,034
MS	2,620	2,450	2,450	27.0	17.0	18.5	71	42	48	5.16	4.93	5.65	365	205	270
MO	5,230	5,250	4,830	34.5	32.5	32.0	180	171	155	4.96	4.61	5.30	895	787	819
NE	2,360	2,450	2,300	36.0	38.0	35.5	85	93	82	4.86	4.56	5.20	413	426	425
NC	1,700	1,530	1,340	23.0	24.0	24.5	39	37	33	5.04	4.82	5.65	197	177	185
ND	490	470	475	26.0	35.0	32.5	13	16	15	4.79	4.63	5.20	61	76	80
OH	3,870	3,620	3,980	41.5	40.5	37.0	161	147	147	5.10	4.86	5.50	819	713	810
SC	1,230	830	730	20.0	16.5	21.5	25	14	18	5.09	4.93	5.80	125	68	93
SD	1,270	1,330	1,380	32.0	30.5	32.5	41	41	45	4.80	4.58	5.00	195	186	226
TN	1,460	1,420	1,250	31.0	25.0	23.0	45	36	29	5.08	4.87	5.50	230	173	158

¹ See footnote 2, table 1124.

² Includes other States not shown separately.

NO. 1126. WHEAT—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1985 TO 1987

[See *Historical Statistics, Colonial Times to 1970*, series K 506–508, for U.S. acreage, production, and price]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (bushels) ¹			PRODUCTION (mil. bushels) ¹			PRICE ² (dol. per bu.)			FARM VALUE (mil. dol.)		
	1985	1986	1987, prel.	1985	1986	1987, prel.	1985	1986	1987, prel.	1985	1986	1987, prel.	1985	1986	1987, prel.
U.S. ³	64,734	60,723	55,930	37.5	34.4	37.6	2,425	2,092	2,105	3.08	2.42	2.65	7,374	5,044	5,371
CA	830	675	537	83.0	76.3	77.5	69	52	42	3.43	2.92	2.84	236	150	118
CO	3,522	2,955	2,555	39.6	32.6	38.1	138	96	97	2.77	2.26	2.45	387	218	239
ID	1,350	1,310	1,140	53.4	62.4	75.0	72	82	88	3.18	2.39	2.54	229	196	217
IL	750	820	950	49.0	44.0	59.0	37	36	56	3.02	2.41	2.60	111	87	146
KS	11,400	10,200	9,900	38.0	33.0	37.0	433	337	368	2.86	2.25	2.40	1,238	757	879
MN	2,683	2,814	2,519	53.1	36.8	40.7	142	104	103	3.00	2.43	2.51	428	252	257
MT	3,960	4,760	4,690	12.7	29.1	32.2	50	139	151	3.47	2.52	2.69	174	349	407
NE	2,300	2,000	1,950	38.0	38.0	44.0	90	76	86	2.79	2.23	2.35	250	169	202
ND	8,870	9,380	9,135	36.4	31.2	29.5	223	292	269	3.26	2.54	2.81	1,054	743	755
OH	950	1,050	800	62.0	46.0	58.0	59	46	46	2.98	2.39	2.56	176	115	118
OK	5,500	5,200	4,800	30.0	29.0	27.0	165	151	130	2.91	2.28	2.45	480	344	318
OR	1,065	1,025	810	52.6	57.0	65.3	56	58	53	3.38	2.59	2.70	189	151	143
SD	3,755	3,840	3,628	28.8	28.3	30.2	111	109	107	3.25	2.42	2.51	361	263	266
TX	5,850	4,800	3,600	32.0	25.0	28.0	187	120	101	2.97	2.32	2.35	556	278	237
WA	2,690	2,410	2,015	47.7	48.5	56.7	128	117	114	3.41	2.51	2.70	437	293	309

¹ 60 pounds per bushel.

² See footnote 2, table 1124.

³ Includes other States not shown separately.

NO. 1127. COTTON—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1985 TO 1987

[Cotton production excludes linters. Values shown are for marketing season or crop year and should not be confused with calendar-year income. See *Historical Statistics, Colonial Times to 1970*, series K 553–558 for U.S. totals]

STATE	ACREAGE HARVESTED (1,000)			YIELD PER ACRE (lb.)			PRODUCTION (1,000 bales) ¹			FARM PRICE PER LB. ² (cents)			FARM VALUE (mil. dol.)		
	1985	1986	1987	1985	1986	1987	1985	1986	1987	1985	1986	1987	1985	1986	1987
Total ³	10,229	8,468	10,035	630	552	708	13,432	9,731	14,760	56.3	52.4	64.2	3,559	2,449	4,547
AL	329	313	333	795	506	572	545	330	397	54.3	52.1	65.1	142	82	124
AZ	415	323	380	1,198	1,224	1,342	1,037	823	1,082	58.2	60.6	72.2	259	239	368
AR	440	480	550	767	602	786	703	602	901	55.9	49.7	62.8	189	144	272
CA	1,320	990	1,141	1,132	1,088	1,258	3,114	2,245	2,991	61.8	59.1	69.1	924	637	992
GA	245	195	245	725	455	662	370	185	338	54.3	58.3	62.4	96	52	101
LA	630	570	600	566	567	782	742	673	977	55.7	49.8	62.1	198	161	296
MS	1,040	1,000	1,010	764	571	829	1,655	1,190	1,745	55.9	50.9	62.5	444	291	524
OK	360	350	400	380	288	415	285	210	346	48.5	43.4	59.1	44	44	98
TN	355	335	435	600	567	700	418	396	534	53.6	49.0	63.3	108	83	193
TX	4,668	3,476	4,431	406	358	508	3,945	2,576	4,688	51.6	46.8	60.7	968	579	1,365

¹ Bales of 480 lb. net weight.

² See footnote 2, table 1124.

³ Includes other States not shown separately.

Source of tables 1125–1127: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, May issue and annual; and *Crop Values*, annual.

Agriculture

NO. 1128. TOBACCO—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1985 TO 1987

[See *Historical Statistics, Colonial Times to 1970*, series K 561-563, for U.S. acreage, production, and price]

STATE	ACREAGE HARVESTED (1,000)		YIELD PER ACRE (pounds)			PRODUCTION (mil. lb.)			PRICE ¹ (dol. per lb.)			FARM VALUE (mil. do.)			
	1985	1986	1987	1985	1986	1987	1985	1986	1987	1985	1986	1987	1985	1986	1987
Total ²	668	582	590	2,197	2,001	2,026	1,511	1,104	1,196	1.85	1.52	1.57	2,486	1,771	1,877
FL	6	5	6	2,675	2,510	2,485	18	13	14	1.71	1.62	1.64	28	22	23
GA	36	31	32	2,280	2,190	2,255	82	68	72	1.71	1.58	1.63	140	107	116
KY	188	153	148	2,300	2,054	2,056	428	315	305	1.56	1.55	1.56	678	468	476
MD.	20	18	15	1,330	1,320	1,250	27	21	19	1.32	1.18	1.25	35	25	23
NC	251	215	225	2,220	2,073	2,075	557	445	467	1.71	1.53	1.58	951	682	737
OH	8	7	7	2,140	1,829	1,839	17	14	12	1.52	1.54	1.54	26	21	19
PA	12	11	11	1,904	1,985	1,882	22	22	21	.84	.87	.77	18	15	16
SC	43	37	42	2,300	2,040	2,240	99	75	94	1.73	1.44	1.61	171	109	151
TN	62	49	49	2,065	1,682	1,766	127	83	87	1.57	1.52	1.55	200	126	135
VA	43	38	39	2,104	1,913	1,950	91	74	77	1.69	1.51	1.52	154	111	117

¹ See footnote 6, table 1121. ² Includes other States not shown separately.Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, May issue and annual; and *Crop Values*, annual.

NO. 1129. SUGAR, BEET AND CANE—SUPPLY AND DISAPPEARANCE: 1970 TO 1987

[In thousands of short tons, raw value]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987, prel.
Total supply	14,392	13,132	14,821	14,110	14,380	12,441	12,003	12,043	11,807	11,637	12,087
United States production	5,874	6,300	5,793	5,736	6,225	5,936	5,682	5,890	5,969	6,257	7,304
Beet	3,511	3,473	3,066	3,052	3,182	3,160	2,588	3,059	2,869	3,201	3,894
Mainland cane ¹	1,201	1,720	1,667	1,661	1,995	1,793	2,050	1,769	2,086	2,024	2,431
Hawaii	1,162	1,107	1,060	1,023	1,048	983	1,044	1,062	1,014	1,032	979
Imports	5,296	3,882	6,027	4,495	5,025	2,964	3,186	3,559	2,787	2,223	1,546
Puerto Rico	353	98	47	178	48	80	67	24	36	31	12
Beginning stocks	2,869	2,854	3,754	3,701	3,082	3,461	3,068	2,570	3,005	3,126	3,225
Total disappearance	10,926	10,276	10,920	11,028	10,919	9,373	9,433	9,038	8,881	8,412	8,887
U.S. consumption	10,532	10,302	10,756	10,189	9,769	9,160	8,817	8,454	8,035	7,786	8,167
Exports	66	216	73	688	1,191	137	300	429	464	556	742
Other ²	328	-242	91	150	-41	76	216	155	182	70	-12

¹ Florida, Louisiana, and beginning 1975, Texas.² Includes net change in invisible stocks, balancing items, and minor quantities of sugar for livestock feed and alcohol.Source: U.S. Dept. of Agriculture, Economic Research Service, *Sugar and Sweetener Outlook and Situation*.

NO. 1130. SUGARCANE AND SUGAR BEETS, AND SUGAR—SUMMARY: 1970 TO 1987

[Data are for crop year. See also *Historical Statistics, Colonial Times to 1970*, series K 542-546]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Sugarcane for sugar and seed:											
Acreage harvested	1,000 acres	584	774	733	755	742	768	747	770	796	824
Yield per acre	Sh. tons	41.1	36.6	36.8	36.3	40.1	36.7	36.6	36.6	38.1	35.5
Production	Mil. tons	24.0	28.3	27.0	27.4	29.8	28.2	27.3	28.2	30.3	29.2
Price per ton for sugar ¹	Dollars	2.10	21.50	38.50	24.90	26.50	27.80	28.20	25.70	27.30	(NA)
Farm value ³	Mil. dol.	2,140	608	1,036	682	790	781	770	752	825	
Sugar beets:											
Acreage harvested	1,000 acres	1,113	1,517	1,190	1,228	1,027	1,056	1,096	1,103	1,191	1,251
Yield per acre	Sh. tons	18.7	19.6	19.8	22.4	20.3	19.9	20.2	20.4	21.1	22.3
Production	Mil. sh. tons	26.4	29.7	23.5	27.5	20.8	21.0	22.1	22.5	25.2	28.0
Price per ton ¹	Dollars	14.80	27.60	47.20	29.20	35.40	37.00	33.90	33.80	35.80	(NA)
Farm value ³	Mil. dol.	392	621	1,103	804	740	778	750	761	902	(NA)
Sugar produced:											
Beet, raw value ⁴	1,000 tons	3,922	4,019	3,149	3,388	2,737	2,699	2,902	3,000	3,416	3,953
Cane, raw value ⁴	1,000 tons	2,416	2,534	2,728	2,833	3,063	2,830	3,007	3,033	3,281	3,333
Per ton of cane ⁴	Lb.	210	214	213	217	215	215	231	226	227	238
Cane, refined basis ⁴	1,000 tons	2,258	2,743	2,550	2,647	2,863	2,739	2,811	2,835	3,066	3,115
Molasses made from sugar-cane ⁴	Mil. gal.	141	183	163	183	177	178	174	179	186	184

¹ Season average prices received by farmers. Prices exclude Government payments under Sugar Act.² Excludes Hawaii. ³ Price per ton of cane for sugar used in evaluating value of production for seed. ⁴ Raw value equals 96% sugar as defined in Sugar Act of 1948. ⁵ Calculated on the basis of 100 lbs. of raw sugar required to produce 83.45 lbs. of refined sugar. ⁶ '80' brix except '85' brix for Hawaii. Includes high-test molasses from frozen cane. Excludes edible molasses.Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Field Crops* (Statistical Bulletin 708); *Crop Production*, June issue and annual; and *Crop Values*, annual.

Vegetables—Fruits and Nuts

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No. 1131. COMMERCIAL VEGETABLE AND OTHER SPECIFIED CROPS—AREA, PRODUCTION, AND VALUE, 1985 TO 1987, AND LEADING PRODUCING STATES, 1987

(Relates to commercial production for fresh market and processing combined. Includes market garden areas but excludes minor producing acreage in minor producing States. Excludes production for home use in farm and nonfarm gardens. Value is for season or crop year and should not be confused with calendar-year income.)

CROP	AREA ¹ (1,000 acres)			PRODUCTION ² (1,000 short tons)			VALUE ³ (mil. dol.)			Leading States in order of production, 1987
	1985	1986	1987	1985	1986	1987	1985	1986	1987	
Asparagus.....	91.5	98.2	100.0	106.8	111.5	117.4	137.5	137.0	138.0	CA, WA, MI.
Beans, snap ⁴	222.2	190.6	220.0	702.5	609.4	676.3	118.8	97.3	108.1	WI, OR, NY.
Beans, dry edible.....	1,481.4	1,495.0	1,708.4	1,108.8	1,142.4	1,315.5	389.4	438.3	406.6	CA, MI, NE.
Broccoli.....	109.5	119.1	120.2	531.4	576.5	571.6	239.3	239.7	239.8	CA, TX, AZ.
Carrots.....	90.1	86.1	93.1	1,145.8	1,171.7	1,277.0	206.4	235.9	215.9	CA, WA, TX.
Cauliflower.....	61.2	67.8	66.1	333.2	376.4	367.0	169.1	191.9	187.6	CA, AZ, NY.
Celery.....	33.9	33.3	34.0	917.5	880.7	892.4	189.5	211.1	197.0	CA, FL, MI.
Corn, sweet.....	625.9	598.0	621.0	3,426.1	3,310.3	3,636.8	367.5	359.7	368.2	WI, MI, WA.
Cucumbers.....	115.2	110.5	109.6	694.4	599.6	635.5	123.6	113.4	114.4	MI, NC, CA.
Honeydew melons.....	25.7	28.8	28.6	237.9	271.9	240.6	58.1	69.1	69.3	CA, TX, AZ.
Lettuce.....	225.7	216.0	221.0	3,090.2	2,931.1	2,905.2	675.3	701.3	657.0	CA, AZ, FL.
Peppermint.....	65.1	64.2	65.8	4.3	4.3	4.4	44.0	46.2	52.0	OR, WA, ID.
Spearmint.....	30.1	28.5	23.8	2.3	2.7	2.1	27.1	30.4	25.0	WA, ID, IN.
Onions.....	122.8	115.3	123.7	2,253.0	2,165.1	2,250.0	347.2	427.7	503.7	TX, CO, OR.
Peas, green ⁴	353.6	272.4	290.3	577.8	414.9	493.5	138.5	93.8	98.6	WI, NY, WA.
Potatoes.....	1,361.1	1,219.6	1,282.1	2,035.6	1,807.6	1,929.0	1,579.6	1,808.5	1,702.0	ID, WA, CA.
Strawberries.....	44.1	44.4	44.6	509.4	508.7	556.0	450.8	503.6	549.1	WI, CA, OR.
Sweet potatoes.....	105.3	93.4	93.3	742.7	637.7	605.2	130.5	139.0	160.0	NC, GA, TX.
Tomatoes.....	390.1	379.3	386.2	8,672.0	8,971.0	9,183.9	1,197.9	1,264.9	1,274.7	CA, TN, SC.

¹ Area of crops for harvest for fresh market, including any partially harvested or not harvested because of low prices or other factors, plus area harvested for processing.

² Excludes some quantities not marketed.

³ Fresh market vegetables valued at f.o.b. shipping point. Processing vegetables are equivalent returns at packinghouse door.

⁴ Processing only.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Vegetables*, annual summary. Also in *Agricultural Statistics*, annual.

NO. 1132. FRUITS AND NUTS—UTILIZED PRODUCTION AND VALUE, 1985 TO 1987, AND LEADING PRODUCING STATES, 1987

FRUIT OR NUT	UTILIZED PRODUCTION ¹				FARM VALUE (mil. dol.)			Leading States in order of production, 1987
	Unit	1985	1986	1987	1985	1986	1987	
Apples (35 States) ²	Mil. lb.....	7,836	7,907	10,242	917	1,059	869	WA, MI, NY.
Apricots.....	1,000 tons.....	106	55	105	28	22	37	CA, WA, UT.
Avocados.....	1,000 tons.....	189	303	239	179	104	150	CA, FL.
Bananas.....	Mil. boxes ³	8	10	11	2	3	3	HI.
Cherries, sweet.....	1,000 tons.....	127	137	209	101	113	155	WA, OR, CA.
Cherries, tart.....	Mil. lb.....	280	218	286	63	44	17	MI, NY, UT.
Cranberries.....	1,000 bbls. ⁴	3,485	3,640	3,258	190	188	169	MA, WI, NJ.
Dates.....	1,000 tons.....	29	18	19	25	15	16	CA.
Figs (fresh).....	1,000 tons.....	33	49	49	10	14	15	CA.
Grapefruit (4 States).....	Mil. boxes ⁴	56	57	63	309	340	412	FL, CA, AZ.
Grapes (12 States).....	1,000 tons.....	5,807	5,225	5,250	959	1,173	1,361	CA, WA, NY.
Kiwifruit.....	1,000 tons.....	21	23	27	17	24	18	CA.
Lemons (2 States).....	Mil. boxes ⁵	26	18	29	168	219	182	CA, AZ.
Limes (FL).....	Mil. boxes ⁶	2	2	1	20	22	20	FL.
Nectarines.....	1,000 tons.....	210	172	191	69	76	66	CA.
Olives.....	1,000 tons.....	96	112	68	54	66	42	CA.
Oranges and tangerines (4 States).....	Mil. boxes ⁷	182	180	186	1,508	1,151	1,390	FL, CA, AZ.
Papayas.....	Mil. lb.....	60	61	57	9	11	11	HI.
Peaches (32 States).....	Mil. lb.....	2,046	2,240	2,301	307	327	326	CA, SC, GA.
Pears.....	1,000 tons.....	747	760	938	201	203	185	CA, WA, OR.
Pineapples.....	1,000 tons.....	565	646	692	91	100	99	HI.
Plums and prunes (fresh).....	1,000 tons.....	645	487	974	192	192	249	CA, OR, MI.
Pomegranates.....	1,000 tons.....	19	22	19	6	8	6	CA.
Tangelos (FL).....	Mil. boxes ⁸	4	3	4	34	19	25	FL.
Templets (FL).....	Mil. boxes ⁹	3	3	3	26	16	21	FL.
Almonds (shelled basis).....	Mil. lb.....	465	250	660	361	482	616	CA.
Elberta (in the shell).....	1,000 tons.....	25	15	22	17	11	21	OR, WA.
Macadamia nuts.....	Mil. lb.....	42	44	43	30	35	36	HI.
Pecans (in the shell) (11 States).....	Mil. lb.....	244	273	262	166	196	139	GA, TX, AL.
Pistachios.....	Mil. lb.....	27	75	33	36	80	45	CA.
Walnuts, English (in the shell).....	1,000 tons.....	219	180	247	175	194	235	CA.

¹ Excludes quantities not harvested or not marketed. ² Production in commercial orchards with 100 or more bearing age trees. ³ Barrels of 100 pounds. ⁴ Approximate average, net weight, is 65 lb. in AZ and CA, 85 lb. in FL, and 80 lb. in TX.

⁵ About 76 lb. net. ⁶ Approximate net weight is 80 lb. ⁷ Net contents of box varies. In CA and AZ approximate average for oranges and tangerines is 75 lb.; FL oranges, 90 lb.; TX oranges, 85 lb.; and FL tangerines, 95 lb. ⁸ Approximate net weight is 90 lb.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Noncitrus Fruits and Nuts*, annual; and *Citrus Fruits*, annual.

Agriculture

NO. 1133. RED MEATS—SLAUGHTERING, PRODUCTION, AND TRADE: 1970 TO 1987

[Quantities represent carcass weight equivalent. 1970 excludes Alaska and Hawaii except for exports and imports. Covers inspected, noninspected, retail, and farm slaughter. Excludes edible byproducts. Excludes USDA exports, military civilian feeding, and voluntary relief feeding. See also *Historical Statistics, Colonial Times to 1970*, series K 583-594.]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
All red meats:												
Animals slaughtered, total	Mil. head	137.3	124.8	132.3	139.7	136.8	128.8	135.0	133.8	131.3	126.8	125.5
Under Federal inspection	Percent	89	91	94	94	94	95	95	96	96	96	97
Production, total ¹	Bil. lb.	36.2	36.8	37.6	39.0	39.0	37.6	39.3	39.3	39.4	39.3	38.7
Federally inspected	Percent	89	90	94	94	94	95	95	96	96	96	97
Exports of U.S. production ²	Mil. lb.	305	449	673	642	714	680	682	699	646	800	901
Imports for consumption	Mil. lb.	2,429	2,248	2,974	2,684	2,333	2,589	2,670	2,821	3,255	3,319	3,533
Beef:												
Animals slaughtered, total	Mil. head	35.4	41.5	34.0	34.1	35.3	36.2	37.0	37.0	36.6	37.6	35.9
Under Federal inspection	Percent	87	89	94	94	94	94	94	95	95	96	97
Production, total	Bil. lb.	21.7	24.0	21.4	21.6	22.4	22.5	23.2	23.6	23.7	24.4	23.6
Federally inspected	Percent	88	90	94	94	94	95	95	95	96	96	97
Exports of U.S. production ²	Mil. lb.	101	110	215	220	252	305	312	378	379	573	656
Imports for consumption	Mil. lb.	1,792	1,758	2,405	2,064	1,743	1,939	1,931	1,823	2,071	2,129	2,269
Lamb and mutton:												
Animals slaughtered, total	Mil. head	4.2	5.4	2.9	2.7	2.9	3.1	3.2	3.4	3.5	3.5	2.9
Under Federal inspection	Percent	72	72	89	89	89	88	88	90	92	92	95
Production, total	Mil. lb.	556	673	434	400	426	448	454	495	514	524	429
Federally inspected	Percent	57	57	73	74	74	76	78	82	86	87	89
Pork:												
Animals slaughtered, total	Mil. head	87.0	69.8	90.2	97.2	92.5	82.8	88.1	85.6	84.9	89	80.0
Under Federal inspection	Percent	90	93	96	96	96	96	96	96	97	97	97
Production, total ¹	Bil. lb.	13.4	11.5	15.5	18.6	15.9	14.2	15.2	14.8	14.8	14.7	14.4
Federally inspected	Percent	90	93	95	95	95	95	95	95	96	97	97

¹ Excludes lard. ² Includes shipments to territories.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Livestock and Meat Statistics*, annual.

NO. 1134. DAIRYING—COWS AND DAIRY PRODUCTS: 1970 TO 1987

[See also *Historical Statistics, Colonial Times to 1970*, series K 595-608]

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987
Cows and heifers that have calved, kept for milk, Jan. 1 ¹	Mil. head	13.3	11.1	10.8	11.0	11.0	11.1	10.8	11.2	10.5
Milk produced on farms:										
Production per cow	Bil. lb.	117	115	2,811	136	140	135	143	143	142
Whole milk sold from farms ²	1,000 lb.	9.8	10.4	11.9	12.3	12.6	12.6	13.0	13.3	13.8
Sales to plants and dealers	Bil. lb.	113	112	126	133	137	133	141	141	140
Value of milk produced	Bil. dollars	110	110	125	132	136	131	139	140	139
Gross farm income, dairy products	Bil. dollars	6.8	10.2	16.9	18.6	19.1	18.3	18.4	18.1	18.0
Cash receipts from marketing of milk and cream ²	Bil. dollars	6.7	10.1	16.7	18.3	18.9	18.1	18.2	17.8	17.8
Sales to plants and dealers	Bil. dollars	6.5	9.9	16.6	18.2	18.8	17.9	18.1	17.8	17.7
Number of dairy plants manufacturing one or more dairy products	Number	3,749	2,801	2,257	2,076	2,120	2,059	2,061	1,998	1,933
Manufactured dairy products:										
Butter (incl. whey butter)	Mil. lb.	1,137	984	1,145	1,257	1,299	1,103	1,248	1,202	1,104
Cheese, total ³	Mil. lb.	2,201	2,811	3,984	4,542	4,819	4,674	5,081	5,209	5,344
American (excl. full-skim American)	Mil. lb.	1,428	1,660	2,376	2,752	2,928	2,648	2,855	2,798	2,717
Swiss (including block)	Mil. lb.	144	174	219	221	208	208	223	227	227
Muenster, Brick, and Limburger ⁴	Mil. lb.	59	74	87	87	85	93	103	110	123
Cream and Neufchatel ⁵	Mil. lb.	126	160	229	263	270	276	294	322	342
All Italian varieties	Mil. lb.	394	672	983	1,088	1,200	1,319	1,491	1,633	1,800
Cottage cheese: Creamed ⁵	Mil. lb.	1,038	961	825	749	743	736	716	705	675
Curd, pot, and bakers'	Mil. lb.	726	701	667	629	618	606	599	600	574
Condensed bulk milk	Mil. lb.	1,237	1,041	952	975	984	1,159	1,232	1,362	1,383
Evaporated and condensed canned milk	Mil. lb.	1,293	938	725	754	710	666	656	602	597
Dry whole milk	Mil. lb.	69	83	83	102	111	120	118	122	146
Nonfat dry milk solids ⁶	Mil. lb.	1,455	1,009	1,168	1,410	1,510	1,168	1,398	1,294	1,079
Dry whey ⁷	Mil. lb.	621	598	690	791	892	898	987	1,031	1,034
Dry buttermilk	Mil. lb.	60	43	44	39	46	43	52	66	56
Ice cream of all kinds	Mil. gal.	762	837	830	852	882	894	901	924	931
Milk sherbet...	Mil. gal.	49	49	45	46	48	47	48	50	50
Ice milk...	Mil. gal.	287	299	293	281	295	300	301	315	330
Wholesale prices, American cheese:	Cents per lb.	55.0	86.6	133.0	138.3	138.3	138.0	127.7	127.3	123.2
40-lb. blocks, Wis. assembly points	Dollars	5.71	8.75	13.05	13.61	13.58	13.46	12.75	12.51	12.54
Prices received by farmers, whole milk:	Cents per qt.	27.0	35.4	45.3	48.1	48.4	49.2	48.7	48.3	48.6
Wholesale, per 100 lb.										
Sold directly to consumers...										

¹ For 1970, cows and heifers 2 years old and over. ² Comprises sales to plants and dealers, and retail sales by farmers direct to consumers. ³ Includes varieties not shown separately. Beginning 1975, includes full-skim. ⁴ Beginning 1986, excludes limburger. ⁵ Includes partially creamed (low fat). ⁶ Includes dry skim milk for animal feed. ⁷ Includes animal but excludes modified whey production.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Production of Manufactured Dairy Products*, annual; and *Milk Production, Disposition, and Income*, annual.

Livestock Inventory and Production

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No. 1135. LIVESTOCK INVENTORY AND PRODUCTION: 1970 TO 1988

[See also *Historical Statistics, Colonial Times to 1970*, series K 564-569 and 575-582]

TYPE OF LIVESTOCK	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
ALL CATTLE												
Inventory: ¹ Number on farms	Mil.	112.4	132.0	111.2	114.4	115.4	115.0	113.7	109.7	105.5	102.0	99.0
Total value	Bil. dol.	20.2	21.0	55.8	54.1	47.9	40.6	45.0	44.1	41.3	41.5	51.8
Production: Quantity ²	Dol.	179	159	502	473	415	396	402	391	407	523	(NA)
Beef, price per 100 lb.	Dol.	39.4	40.9	40.3	41.2	40.7	40.3	40.0	40.2	40.5	40.3	(NA)
Calves, price per 100 lb.	Dol.	34.50	27.0	76.80	64.00	59.80	55.50	57.30	53.70	52.60	61.10	(NA)
Value of production	Bil. dol.	10.9	12.8	26.5	23.7	22.6	22.0	22.1	21.2	20.9	24.6	(NA)
HOGS AND PIGS												
Inventory: ³ Number on farms	Mil.	57.0	54.7	67.3	64.5	58.7	54.5	56.7	54.1	52.3	50.9	53.8
Total value	Bil. dol.	2.2	2.5	3.8	4.8	4.1	4.9	3.3	4.1	3.6	4.7	4.1
Production: Quantity ²	Dol.	89.00	44.90	56.00	74.70	70.10	89.90	58.80	75.00	69.60	91.90	76.20
Price per 100 lb.	Dol.	21.8	16.8	23.4	21.8	19.7	21.2	20.2	20.2	19.4	20.4	(NA)
Value of production	Bil. dol.	22.70	46.10	38.00	43.90	52.30	46.80	47.10	44.00	49.30	51.20	(NA)
SHEEP AND LAMBS												
Inventory: ¹ Number on farms	Mil.	20.4	14.5	12.7	12.9	13.0	12.1	11.5	10.4	10.0	10.3	10.8
Total value	Mil. dol.	513	442	993	904	742	629	599	638	673	782	969
Production: Quantity ²	Dol.	25.10	30.50	78.20	69.90	57.10	51.80	52.10	61.10	67.40	75.70	89.90
Sheep, price per 100 lb.	Dol.	1,099	785	746	772	785	768	694	694	721	742	(NA)
Lambs, price per 100 lb.	Dol.	7.52	11.30	21.30	21.20	19.50	15.70	16.40	23.90	25.60	29.50	(NA)
Value of production	Mil. dol.	26.40	42.10	63.60	54.90	53.10	53.90	60.10	67.28	69.00	77.60	(NA)

NA Not available. ¹ As of Jan. 1. ² Liveweight production. Adjustment made for changes in inventory and for shipments. ³ As of Dec. 1 of preceding year.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Meat Animals—Production, Disposition, and Income*, annual; and annual livestock summaries. Also in *Agricultural Statistics*, annual.

No. 1136. LIVESTOCK ON FARMS—NUMBER, PRODUCTION, AND VALUE, BY STATE: 1987 AND 1988

STATE	ALL CATTLE			MILK COWS			SHEEP AND LAMBS			HOGS AND PIGS		
	Number on farms, ¹ 1988 (1,000)	Quantity produced, ² 1987 (mil. lb.)	Value of production, ³ 1987 (mil. dol.)	Number on farms, ¹ 1988 (1,000)	Milk produced on farms, ⁴ 1987 (mil. lb.)	Value of milk produced, ⁴ 1987 (mil. dol.)	Number on farms, ¹ 1988 (1,000)	Quantity produced, ² 1987 (mil. lb.)	Value of production, ³ 1987 (mil. dol.)	Number on farms, ⁵ 1987 (1,000)	Quantity produced, ² 1987 (mil. lb.)	Value of production, ³ 1987 (mil. dol.)
U.S. ⁶	98,994	40,282	24,629	10,307	142,462	18,004	10,774	742	499	53,795	20,419	10,427
AZ	960	581	356	90	1,432	183	284	13	6	130	54.5	31.0
AR	1,850	658	384	72	748	106	-	-	-	465	216.5	103.9
CA	4,600	1,903	1,083	1,005	17,934	2,091	1,015	95	69	130	54.5	31.6
CO	2,700	1,698	1,120	72	1,192	164	860	46	31	205	71.8	38.5
FL	1,970	425	297	179	2,209	362	-	-	-	150	50.2	25.1
GA	1,520	394	229	102	1,155	164	-	-	-	1,175	396.5	204.9
ID	1,570	752	453	160	2,375	273	324	31	21	80	27.4	13.7
IL	2,050	802	508	210	2,775	350	107	8	6	5,300	2,141.9	1,081.2
IN	1,360	418	240	190	2,415	307	80	7	4	4,800	1,805.7	805.0
IA	4,600	2,242	1,379	289	3,550	430	405	33	23	13,800	5,390.1	2,766.6
KS	5,860	3,046	1,967	104	1,241	155	277	18	13	1,450	575.8	284.8
KY	2,450	729	433	218	2,338	302	34	3	2	900	345.6	182.8
MI	1,225	482	247	358	5,248	663	105	9	6	1,350	434.3	217.6
MN	2,850	1,421	829	810	10,436	1,238	238	18	12	4,350	1,615.0	840.3
MO	4,250	1,300	833	224	2,900	360	103	8	5	2,950	1,139.7	590.1
MT	2,350	889	560	25	331	42	538	35	23	230	84.3	38.5
NE	5,450	3,441	2,213	100	1,340	166	160	13	9	4,000	1,487.0	760.2
NM	1,320	602	363	59	979	129	451	19	13	31	11.7	5.9
NY	1,702	242	131	844	11,362	1,448	63	4	2	124	41.3	20.4
NC	825	284	160	105	1,555	229	13	1	(z)	2,500	919.4	468.3
ND	1,800	749	497	99	1,103	122	169	14	9	320	109.0	52.7
OH	1,820	592	353	368	4,810	614	270	17	12	2,150	789.8	397.2
OK	5,050	2,112	1,222	108	1,170	157	124	6	4	200	86.2	43.1
OR	1,380	488	289	94	1,471	187	490	37	24	100	46.6	24.8
PA	1,920	572	333	724	10,183	1,356	10	6	4	860	290.2	148.9
SD	3,500	1,763	1,117	147	1,759	206	610	54	41	1,520	659.9	345.2
TN	2,300	744	408	204	2,207	297	12	1	(2)	800	260.6	136.2
TX	13,500	5,445	3,394	340	4,300	593	1,960	116	79	580	216.8	109.2
UT	760	291	186	73	1,121	137	478	36	24	26	7.8	3.7
VA	1,700	682	367	145	2,016	272	140	10	6	420	167.2	83.7
WA	1,290	533	326	211	3,763	475	72	6	4	55	18.5	9.3
WI	4,230	1,355	788	1,780	24,800	3,014	78	8	5	1,280	567.9	288.7
WY	1,290	465	315	10	120	14	865	50	31	35	10.1	5.1

¹ Represents zero. ² Less than \$500,000. ³ As of January 1. ⁴ Liveweight production. Adjustment made for changes in inventory and for shipments. ⁵ Represents cows and heifers that have calved, kept for milk, or average returns per 100 pounds of milk in combined marketings of milk and cream. Includes value of milk fed to calves. ⁶ As of December 1. ⁷ Includes other States, not shown separately.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Meat Animals—Production, Disposition, and Income*, annual; and *Milk Production, Disposition, and Income*, annual.

Agriculture

NO. 1137. POULTRY—NUMBER ON FARMS, VALUE, PRODUCTION, AND PRICES: 1970 TO 1987

[For year ending November 30 except as noted. See also *Historical Statistics, Colonial Times to 1970*, series K 609-623]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Chickens: ¹ Number ²	Million.....	433	380	401	392	385	378	365	374	369	369	378
Value per head ²	Dollars.....	1.21	1.74	1.81	1.88	1.89	1.85	1.96	2.02	1.90	1.87	1.87
Value, total ²	Mill. dol.	525	650	726	737	728	703	717	754	700	691	706
Number produced ³	Million.....	264	233	251	241	242	246	232	242	220	216	218
Price per lb. ³	Cents.....	9.1	9.9	13.9	11.0	11.1	10.3	12.7	15.9	14.8	12.5	11.0
Production value ³	Mill. dol.	107	105	171	129	135	121	145	181	152	128	114
Broilers: ⁴ Number produced	Million.....	2,987	2,950	3,951	3,963	4,148	4,149	4,184	4,282	4,479	4,646	5,003
Price per lb.	Cents.....	13.6	26.3	26.0	27.7	28.4	26.9	28.6	33.7	30.1	34.5	28.7
Production value.....	Mill. dol.	1,475	2,915	4,032	4,303	4,699	4,502	4,873	6,018	5,680	6,780	6,176
Turkeys: Number raised	Million.....	116	124	158	165	171	165	171	171	185	207	240
Price per lb.	Cents.....	22.6	34.8	41.1	41.3	38.2	39.5	38.0	46.9	49.1	47.1	34.8
Gross income.....	Mill. dol.	498	793	1,214	1,272	1,248	1,255	1,269	1,655	1,819	1,948	1,701

¹ Excludes commercial broilers. ² As of Dec. 1. ³ Beginning 1985, represents number sold and value of sales. ⁴ Young chickens of the heavy breeds and other meat-type birds, to be marketed at 2-5 lbs. live weight and from which no pullets are kept for egg production. Not included in production of chickens.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Hatchery Production—Annual; Poultry—Production, Disposition, and Income; and Turkeys*.

NO. 1138. POULTRY—PRODUCTION, BY STATE: 1986 AND 1987

[In millions. See *Historical Statistics, Colonial Times to 1970*, series K 614 and 621 for U.S. totals]

STATE	CHICKENS SOLD		BROILERS PRODUCED		TURKEYS RAISED		STATE	CHICKENS SOLD		BROILERS PRODUCED		TURKEYS RAISED	
	1986	1987	1986	1987	1986	1987		1986	1987	1986	1987	1986	1987
U.S.	216	218	4,646	5,003	207	240	MI.....	5.3	4.4	.6	7	2.7	3.0
AL.....	10.0	10.0	587.5	665.5	(2)	(2)	MN.....	7.7	7.7	29.7	31.7	34.2	40.5
AR.....	16.0	18.2	786.8	878.6	16.5	18.0	MS.....	7.8	8.1	335.7	343.4	(2)	(2)
CA.....	19.7	18.6	184.8	198.1	21.8	25.5	MO.....	4.0	5.0	(D)	(D)	13.5	15.5
CT.....	3.1	4.5	(2)	(2)	(2)	(2)	NY.....	5.6	6.5	2.0	2.1	.3	.4
DE.....	.8	.8	196.8	209.8	(2)	(2)	NC.....	11.8	11.8	450.5	477.7	39.1	48.4
FL.....	5.2	4.6	111.9	117.0	(2)	(2)	OH.....	11.9	11.2	9.8	11.0	3.1	3.4
GA.....	16.5	16.1	697.4	733.4	2.4	2.4	OK.....	3.1	3.0	79.5	93.6	(D)	(D)
IL.....	2.0	2.1	(2)	(2)	.3	.7	OR.....	1.5	1.9	15.8	17.0	1.5	1.8
IN.....	16.8	15.8	(D)	(D)	9.4	13.0	PA.....	15.9	15.9	101.9	115.6	7.8	8.0
IA.....	4.5	5.0	2.7	2.6	7.0	8.5	SC.....	4.5	4.3	63.8	68.1	3.9	4.0
KY.....	1.3	1.3	3.0	2.9	(2)	(2)	TN.....	1.9	1.7	82.5	92.5	(Z)	(Z)
LA.....	1.2	1.1	(D)	(D)	(2)	(2)	TX.....	10.3	10.9	238.6	250.0	(D)	(D)
ME.....	4.6	3.8	(D)	(D)	(2)	(2)	VA.....	2.6	2.7	154.2	154.0	14.3	16.2
MD.....	2.8	2.7	263.9	264.2	(D)	(D)	WA.....	3.4	3.6	25.1	26.2	(2)	(2)
MA.....	1.2	1.1	(2)	(2)	.1	.1	WV.....	4	4	28.0	32.8	2.2	2.4
							WI.....	2.2	2.1	11.6	13.2	6.1	5.5
							Other ¹	10.7	11.1	181.0	205.3	20.8	22.7

D Withheld to avoid disclosure. Z Less than 500,000 broilers or 50,000 turkeys. ¹ Derived by subtracting printed estimates from U.S. total.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Layers and Egg Production—Annual; Poultry—Production, Disposition, and Income; and Turkeys*.

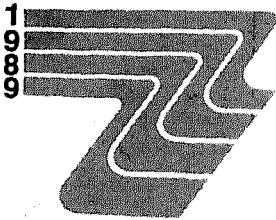
NO. 1139. EGG PRODUCTION, SUPPLY, AND USE: 1983 TO 1987

(In millions of dozens, except as indicated)

YEAR	PRODUCTION ¹			SUPPLY			USE			
	Number produced	Price per dozen (cents)	Production value (mil. dol.)	Total ²	Production	Imports	Total	Consumption	Hatching use	Exports ³
1983	5,681	61.1	3,469	5,703	5,658	23	5,694	5,081	500	112
1984	5,686	72.3	4,110	5,750	5,708	32	5,739	5,123	530	86
1985	5,701	57.1	3,253	5,712	5,686	13	5,701	5,052	548	101
1986	5,700	61.8	3,510	5,729	5,705	14	5,719	5,023	567	130
1987	5,791	54.9	3,177	5,812	5,797	6	5,789	5,067	595	136

¹ For year ending November 30. ² Includes beginning stocks, not shown separately. ³ Includes shipments to territories.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Layers and Egg Production—Annual*; and Economic Research Service, *Agricultural Outlook*, monthly.



Section 24

Forests and Fisheries

This section presents data on the area, ownership, and timber resource of commercial timberland; forestry statistics covering the National Forests and Forest Service cooperative programs; product data for lumber, pulpwood, woodpulp, paper and paperboard, and similar data. In addition, data are presented on commercial fishing and the fish processing industry.

The principal sources of data relating to forests and forest products are: *An Analysis of the Timber Situation in the United States, 1952-2030*; *Appendix 3: U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-87*; and *Land Areas of the National Forest System*, issued annually by the Forest Service of the Department of Agriculture; *Agricultural Statistics* issued by the Department of Agriculture; and reports of the census of manufactures (taken every five years) and the annual *Current Industrial Reports*, issued by the Bureau of the Census. Additional information is published in the monthly *Survey of Current Business* of the Bureau of Economic Analysis; and the annual *Wood Pulp and Fiber Statistics* and *The Statistics of Paper, Paperboard, and Wood Pulp* of the American Paper Institute, New York, NY.

The Bureau of the Census also collects data on foreign trade of forest products. The Bureau of Labor Statistics publishes monthly and annual statistics of producer prices for lumber.

The completeness and reliability of statistics on forests and forest products vary considerably. The data for forest land area and stand volumes are much more reliable for areas which have been recently surveyed than for those for which only estimates are available. In general, more data are available for lumber and other manufactured products such as veneer and plywood, etc., than for the primary forest products such as poles and piling and fuelwood.

The principal sources of data relating to fisheries are *Fishery Statistics of the United States*, and *Fisheries of the United States*, both issued annually by the National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA).

The NMFS collects and disseminates data on commercial landings of fish and shellfish, freezings and holdings of fishery products, fish meal and oil production, and foreign trade in fishery products. Quarterly data are published on U.S. output of fish sticks, fish portions, and breaded shrimp. Annual reports include quantity and value of commercial landings of fish and shellfish (by species, region, State, and type of fishing gear), disposition of landings, number of fishermen, and number and kinds of fishing vessels and fishing gear. Reports for the fish-processing industry include annual output of canned, packaged, and industrial products and, for the wholesaling and fish processing establishments, annual and seasonal employment, and number of firms, by product and State.

The Magnuson Fishery Conservation and Management Act of 1976 (Magnuson Act), Public Law 94-265 as amended, provides for the conservation and management of all fishery resources within the U.S. Exclusive Economic Zone (EEZ), except highly migratory species of tuna, and gives the Federal Government exclusive authority over domestic and foreign fisheries within 200 nautical miles of U.S. shores and over certain living marine resources beyond the EEZ. Within the EEZ, the total allowable level of foreign fishing, if any, is that portion of the "optimum yield" not harvested by U.S. vessels. Adjustments in the "optimum yield" level may occur periodically. For details, see *Fisheries of the United States, 1986*. The NMFS collects and disseminates data on catches by foreign fishing vessels in the EEZ.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

Forests and Fisheries

NO. 1140. NATIONAL FOREST LANDS AND PURCHASES: 1960 TO 1987

[Area as of June 30 except, beginning 1980, as of Sept. 30; purchases for years ending June 30, except as noted. Includes Puerto Rico. Prior to Oct. 1976, lands to be purchased under the Weeks Law and related acts were approved by the National Forest Reservation Commission which also set prices on such lands. With the passage of the National Forest Management Act, all functions of the Commission were transferred to the Secretary of Agriculture. Actual purchases are made by U.S. Department of Agriculture. See also *Historical Statistics, Colonial Times to 1970*, series L 10-14.]

ITEM	Unit	1960	1965	1970	1975	1980	1983	1984	1985	1986	1987
Gross area ¹	Mil. acres.....	227	226	226	226	226	230	230	230	230	230
National Forest System.....	Mil. acres.....	186	187	187	188	187	191	191	191	191	191
Approved for purchase.....	1,000 acres.....	8	29	92	12	42	7	8	16	23	87
Average price per acre.....	Dollars.....	15	47	125	275	664	332	544	431	308	437
Total price.....	Mil. dol. ....	.1	1.3	11.5	3.3	27.9	2.4	4.2	6.9	7.0	38.0
Purchases completed.....	1,000 acres.....	8	33	113	34	27	31	35	7	33	33
Average price per acre.....	Dollars.....	31	39	96	267	617	330	407	653	295	380
Total price.....	Mil. dol. ....	.2	1.3	10.9	9.1	17.1	10.0	14.0	4.2	9.8	19.0
Gross area of purchase units.....	Mil. acres.....	56	56	56	56	56	58	58	58	58	58
Purchase completed, net area ²	Mil. acres.....	19	19	20	20	20	20	20	20	20	20
Average price per acre.....	Dollars.....	4	4	6	9	12	15	15	15	18	17
Total price	Mil. dol.	75	79	125	178	250	294	298	305	314	333

¹ Comprises all publicly and privately owned land within authorized boundaries of national forests, purchase units, national grasslands, and land utilization projects (research and experimental areas, and other areas). ² Cumulative total. Under the March 1, 1911 Act of Congress (Weeks Law), as amended, and related acts.

Source: U.S. National Forest Reservation Commission, *Final Report to October 1976*; and U.S. Forest Service, *Land Areas of the National Forest System*, annual; and unpublished data.

NO. 1141. NATIONAL FOREST SYSTEM—SUMMARY: 1970 TO 1987

[For fiscal years ending in year shown; see text, section 9. Includes Alaska and Puerto Rico, except as noted. See *Historical Statistics, Colonial Times to 1970*, series J 33-34, for similar but not comparable grazing data, and L 15-31]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Timber cut, total value.....	Mil. dol.	308.6	388.4	736.6	728.9	348.7	655.9	763.9	724.5	789.9	1,019.0
Commercial and cost sales: ¹											
Volume.....	Mil. bd. ft.	11,527	9,174	8,178	8,036	6,747	9,244	10,549	10,941	11,786	12,712
Value.....	Mil. dol.	307.6	366.0	729.8	720.9	339.2	649.7	759.6	720.6	786.9	1,016.0
Free use:											
Volume.....	Mil. bd. ft.	179	618	2,070	2,107	2,343	1,071	570	399	308	209
Value ²	Mil. dol. ....	.3	1.1	5.7	6.4	7.5	4.5	2.6	2.2	1.4	1.1
Misc. forest products:											
Value.....	Mil. dol. ....	.7	1.4	1.1	1.6	2.0	1.7	1.7	1.7	1.6	1.9
Livestock grazing: ³											
Cattle and horses ⁴	1,000	1,807	1,826	1,521	1,535	1,562	1,609	1,521	1,565	1,491	1,410
Sheep and goats.....	1,000	2,105	1,549	1,328	1,341	1,340	1,242	1,129	1,183	1,168	1,134
Roads and trails:											
Road construction ⁵	Miles.....	942	136	825	1,217	1,867	2,016	1,867	1,903	1,252	2,394
Trail construction ^{5,6}	Miles.....	278	298	2,419	727	782	959	874	987	1,092	1,046
Receipts, total:											
Timber use.....	Mil. dol.	299.7	373.1	702.9	680.7	350.2	495.3	837.3	635.9	831.7	888.4
Grazing use.....	Mil. dol.	283.9	341.3	625.4	581.4	251.0	398.5	544.3	514.6	745.1	807.9
Special land use, etc.....	Mil. dol.	4.4	7.7	15.8	14.9	12.4	10.2	9.6	9.0	8.6	8.1
Payments to local govt. ⁷	Mil. dol.	72.8	91.0	240.1	243.0	144.3	203.5	235.3	229.0	270.9	295.4
25-percent fund ⁸	Mil. dol.	71.9	89.8	233.6	230.5	132.6	192.7	224.9	212.2	262.1	285.3
Other ⁹	Mil. dol. ....	.9	1.2	6.5	12.5	11.7	10.8	10.4	16.8	8.8	10.1
Allotments to Forest Service, total ¹⁰	Mil. dol.	29.5	39.5	73.1	68.2	35.2	49.0	62.3	60.0	82.1	88.1
Roads and trails.....	Mil. dol.	28.8	35.9	65.5	60.9	29.4	44.5	58.0	55.5	78.0	83.9
Other.....	Mil. dol. ....	.8	3.6	7.6	7.3	5.8	4.5	4.3	4.5	4.1	4.2

¹ Includes land exchanges. ² Includes some free use timber not reducible to board feet. ³ For 1970, data for livestock permitted to graze; 1975 for authorized use; 1980-1987 for number actually grazed. ⁴ Excludes Puerto Rico. ⁵ Excludes animals under 6 months of age. 1970 includes swine. Includes burros beginning in 1980. ⁶ Includes reconstruction. ⁷ Beginning 1980, includes work accomplished by Human Resource Programs and volunteers. ⁸ Payments made in following year. ⁹ Includes Tongass, Alaska suspense account. ¹⁰ Includes Arizona and New Mexico School Fund, State of Minnesota, and receipts paid to counties under Bankhead-Jones Farm Tenant Act. ¹¹ For use in following year.

Source: U.S. Forest Service, In *Agricultural Statistics*, annual, and unpublished data.

Forest Lands—Timberland, Sawtimber, Growing Stock

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No. 1142. NATIONAL FOREST LANDS—STATES AND OTHER AREAS: 1987

[In thousands of acres. As of Sept. 30. See also *Historical Statistics, Colonial Times to 1970*, series L 10-11]

STATE	Gross area within unit boundaries ¹	National forest system lands	Other lands within unit boundaries	STATE	Gross area within unit boundaries ¹	National forest system lands	Other lands within unit boundaries
Total	230,220	190,830	39,390	NE.....	442	352	90
AL.....	1,274	649	625	NV.....	5,364	5,103	261
AK.....	24,228	22,750	1,477	NH.....	823	715	109
AZ.....	11,933	11,276	657	NM.....	10,384	9,326	1,058
AR.....	3,502	2,484	1,019	NY.....	13	13	-
CA.....	24,384	20,524	3,860	NC.....	3,165	1,220	1,946
CO.....	16,030	14,458	1,572	ND.....	1,106	1,108	(2)
CT.....	(2)	(2)	-	OH.....	833	179	654
FL.....	1,224	1,100	125	OK.....	461	296	166
GA.....	1,655	867	988	OR.....	17,488	15,621	1,867
HI.....	(2)	(2)	-	PA.....	743	511	232
ID.....	21,705	20,455	1,250	SC.....	1,376	606	769
IL.....	840	263	576	SD.....	2,348	1,997	351
IN.....	644	188	456	TN.....	1,212	626	586
KS.....	117	108	9	TX.....	1,994	753	1,242
KY.....	2,102	665	1,436	UT.....	9,128	8,040	1,087
LA.....	1,023	600	422	VA.....	630	326	304
ME.....	94	53	40	WA.....	3,226	1,638	1,588
MI.....	4,872	2,802	2,070	WV.....	10,044	9,144	900
MN.....	5,467	2,806	2,661	WI.....	1,861	1,003	858
MS.....	2,310	1,148	1,162	WY.....	2,023	1,507	516
MO.....	3,082	1,473	1,609	PR.....	56	28	463
MT.....	19,097	16,796	2,301	VI.....	(2)	(2)	-

- Represents zero. Z Less than 500 acres. ¹ See footnote 1, table 1140.

Source: U.S. Forest Service, *Land Areas of the National Forest System*, annual.

No. 1143. FOREST LAND—TOTAL AND TIMBERLAND AREA, VOLUME OF SAWTIMBER, AND GROWING STOCK: 1952 TO 1987

[As of Jan. 1. For composition of regions, see table 1144]

YEAR AND REGION	Total forest land (mil. acres)	TIMBERLAND, OWNERSHIP ¹				SAWTIMBER, NET VOLUME ²		GROWING STOCK, NET VOLUME ⁴	
		All ownerships (mil. acres)	Federal- ly owned or man- aged ² (mil. acres)	State, county, and munici- pal (mil. acres)	Private		Total (bil. bd. ft.)	Softwood (bil. bd. ft.)	Total (bil. cu. ft.)
					Total (mil. acres)	Percent of total			
United States, 1952	664	509	125	27	356	70.0	2,520	2,089	610
North.....	209	158	13	18	127	80.0	231	62	106
South.....	197	205	15	3	187	91.4	411	198	143
West.....	258	146	97	6	42	29.1	1,878	1,829	361
United States, 1962	759	515	125	27	363	70.4	2,558	2,062	659
North.....	178	160	13	18	130	80.9	268	74	131
South.....	220	209	15	3	191	91.4	494	250	168
West.....	360	146	97	6	42	28.9	1,795	1,738	361
United States, 1970	754	504	122	29	354	70.2	2,587	2,035	694
North.....	186	158	13	18	127	80.5	305	87	148
South.....	212	203	15	3	185	90.9	569	302	191
West.....	365	143	94	7	42	29.2	1,713	1,646	355
United States, 1977	737	491	113	31	347	70.6	2,635	2,021	725
North.....	178	157	12	19	126	80.4	350	102	166
South.....	207	198	15	3	180	90.6	648	345	215
West.....	352	136	85	9	41	30.1	1,837	1,574	344
United States, 1987, prel....	728	483	102	34	347	71.8	2,823	2,026	755
North.....	170	158	13	19	126	79.7	471	133	190
South.....	200	195	16	4	176	89.8	757	380	238
West.....	358	129	73	11	45	35.0	1,595	1,513	326

¹ Timberland is forest land that is producing or is capable of producing crops of industrial wood and not withdrawn from timber utilization by statute or administrative regulation. Areas qualifying as timberland have the capability of producing in excess of 20 cubic feet per acre per year of industrial wood in natural stands. Currently inaccessible and inoperable areas are included.

² Includes Indian lands. ³ Live trees of commercial species containing at least one 12-foot sawlog or two noncontiguous 8-foot logs, and meeting regional specifications for freedom from defect. Softwood trees must be at least 8.0-inches diameter, and hardwood trees must be at least 11.0-inches diameter at 4½ feet above ground. ⁴ Live trees of commercial species meeting specified standards of quality or vigor. Cull trees are excluded. Includes only trees 5.0-inches diameter or larger at 4½ feet above ground.

Source: U.S. Forest Service, *Past, Present, and Future Trends in U.S. Timber Sector: 1952-2040*, forthcoming.

Forests and Fisheries

NO. 1144. FOREST LAND—TOTAL AND TIMBERLAND AREA, VOLUME OF SAWTIMBER, AND GROWING STOCK, BY STATE: 1987

[As of January 1. Preliminary]

STATE	Total forest land (1,000 acres)	TIMBERLAND OWNERSHIP ¹ (1,000 acres)			SAWTIMBER NET VOLUME ³		GROWING STOCK, NET VOLUME ⁴	
		Federally owned or managed ²	State, county, municipal	Private	Total (mil. bd. ft.)	Softwood (mil. bd. ft.)	Total (mil. cu. ft.)	Softwood (mil. cu. ft.)
U.S.	727,921	483,072	102,285	33,722	347,055	2,623,246	2,025,957	754,916
North	169,790	158,304	12,966	19,246	126,092	471,011	132,535	190,418
Northeast	85,251	80,103	3,058	6,712	70,333	252,182	80,474	109,135
CT.	1,815	1,777	15	230	1,531	7,603	1,464	2,708
DE.	388	388	~	14	374	1,774	523	541
ME.	17,713	17,174	194	419	16,661	46,846	32,859	22,447
MD.	2,632	2,462	22	258	2,182	13,410	2,250	4,490
MA.	3,097	3,010	40	434	2,536	11,595	5,718	4,728
NH.	5,021	4,803	536	252	4,015	17,749	9,461	7,880
N.J.	1,885	1,914	246	287	1,381	3,977	1,236	1,895
NY.	16,775	15,798	123	1,092	14,583	49,412	14,017	20,088
PA.	16,897	16,186	553	2,992	12,641	52,231	4,868	21,748
RI.	389	388	7	75	286	918	187	428
VT.	4,479	4,424	251	409	3,784	13,845	5,117	6,243
WV.	11,942	11,799	1,070	250	10,479	32,825	2,755	15,837
North Central	80,310	74,672	8,832	12,385	53,455	207,000	45,255	77,902
IL.	4,265	4,030	292	97	3,641	17,496	398	4,834
IN.	4,439	4,298	328	206	3,761	19,217	617	5,215
IA.	1,582	1,460	43	59	1,358	4,283	19	1,251
MI.	18,220	17,364	2,542	3,768	11,054	52,491	18,442	20,972
MN.	15,583	13,572	2,291	4,988	6,293	30,997	11,195	13,731
MO.	12,523	11,995	1,390	267	10,338	21,310	2,073	7,935
OH.	7,397	7,229	171	252	6,806	22,358	976	7,552
WI.	15,319	14,726	1,774	2,748	10,204	38,938	11,594	16,412
Great Plains	4,229	3,529	1,076	149	2,304	11,739	6,806	3,381
KS.	1,358	1,207	41	9	1,157	2,989	14	853
NE.	722	537	38	26	473	1,943	759	469
ND.	460	338	43	24	271	577	7	243
SD.	1,690	1,447	854	50	403	6,231	6,027	1,796
South	198,943	195,384	16,017	3,666	175,701	757,164	380,137	238,034
Southeast	87,744	84,594	7,043	1,729	75,822	352,542	169,087	114,167
FL.	16,721	15,238	1,583	583	13,072	40,532	25,677	13,895
GA.	23,907	23,384	1,421	188	21,775	92,311	52,894	30,694
NC.	18,891	18,358	1,418	412	16,528	91,881	38,950	26,952
SC.	12,257	12,179	914	260	11,005	60,781	34,080	17,732
VA.	15,968	15,435	1,707	286	13,442	67,037	17,486	22,954
South Central	112,199	110,790	8,974	1,937	99,879	404,822	211,050	123,867
AL.	21,725	21,659	951	210	20,498	64,513	39,787	21,810
AR.	16,987	16,673	2,659	352	13,662	64,508	35,701	24,242
KY.	12,256	11,908	856	34	11,019	34,145	2,463	14,610
LA.	13,883	13,872	833	498	12,541	70,735	45,445	18,892
MS.	16,693	16,674	1,493	232	14,949	68,567	38,426	18,815
OK.	4,838	4,749	510	122	4,117	6,688	3,680	2,219
TN.	13,258	12,840	953	402	11,480	43,456	8,661	14,292
TX.	12,559	12,414	714	87	11,613	52,008	36,986	12,887
West	358,169	328,384	73,312	10,810	45,262	1,595,071	1,513,285	328,484
Pacific Northwest	178,956	154,361	23,801	7,821	22,739	882,711	837,189	167,810
AK.	129,045	15,753	4,958	4,842	6,163	176,144	168,317	41,260
OR.	28,055	21,749	12,441	929	8,378	372,612	358,212	64,930
WA.	21,856	18,849	6,402	2,250	8,197	333,954	310,658	61,620
Pacific Southwest	41,129	17,412	9,150	445	7,817	313,162	289,192	54,051
CA.	39,381	16,712	9,150	107	7,455	311,966	289,174	53,771
HI.	1,748	700	—	338	362	1,196	18	280
Rocky Mountains	138,104	57,611	40,361	2,544	14,706	399,198	386,904	104,603
AZ.	19,384	3,789	3,734	12	43	30,379	29,102	6,316
CO.	21,338	11,740	6,194	320	3,226	67,112	61,652	19,449
ID.	21,818	14,534	10,948	1,057	3,099	140,566	139,582	32,592
MT.	21,910	14,737	9,364	640	4,733	92,962	91,678	28,018
NV.	8,928	221	106	3	112	2,097	2,059	419
NM.	18,526	5,180	3,474	112	1,594	25,135	23,843	6,124
UT.	16,234	3,078	2,344	167	567	16,073	14,831	4,795
WY.	9,966	4,332	2,797	203	1,332	24,674	24,357	6,892

— Represents zero. ¹ Timberland is forest land that is producing or is capable of producing crops of industrial wood and not withdrawn from timber utilization by statute or administrative regulations. Areas qualifying as timberland have the capability of producing in excess of 20 cubic feet per acre per year of industrial wood in natural stands. Currently inaccessible and inoperable areas are included. ² Includes Indian lands. ³ Live trees of commercial species containing at least one 12-foot sawlog or two noncontiguous 8-foot logs, and meeting regional specifications for freedom from defect. Softwood trees must be at least 8.0-inches diameter, and hardwood trees must be at least 11.0 diameter at 4½ feet above ground. ⁴ Live trees of commercial species meeting specified standards of quality or vigor. Cut trees are excluded. Includes only trees 5.0-inches diameter or larger at 4½ feet above ground.

Source: U.S. Forest Service, *Past, Present, and Future Trends in U.S. Timber Sector: 1952-2040*, forthcoming.

**NO. 1145. TIMBER-BASED INDUSTRIES—EMPLOYMENT AND AVERAGE HOURLY EARNINGS:
1970 TO 1987**

[Data for production workers. See also *Historical Statistics, Colonial Times to 1970*, series L 212-223]

SIC ¹ code	ITEM	EMPLOYEES (1,000)						EARNINGS (dollars)					
		1970	1975	1980	1985	1986	1987	1970	1975	1980	1985	1986	1987
24	Lumber and wood products ²	554	517	578	584	597	619	2.96	4.26	6.55	9.22	8.34	8.40
241	Logging camps and contractors..	(NA)	59	71	67	71	71	(NA)	5.28	8.64	10.92	10.82	10.69
242	Sawmills and planing mills.....	196	180	190	172	171	177	2.84	4.34	6.70	8.52	8.58	8.57
243	Millwork, plywood, and structural members.....	(NA)	137	164	190	202	215	(NA)	4.26	6.41	8.06	8.20	8.33
26	Paper and allied products.....	543	480	523	512	511	516	3.44	5.01	7.84	10.83	11.18	11.43
25	Furniture and fixtures.....	362	337	376	394	398	415	2.77	3.78	5.49	7.17	7.46	7.67

NA Not available. ¹Standard Industrial Classification; see text, section 27. ²Includes other industries, not shown separately.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

NO. 1146. TIMBER PRODUCTS—PRODUCTION, FOREIGN TRADE, AND CONSUMPTION, BY TYPE OF PRODUCT: 1960 TO 1986

[In millions of cubic feet, roundwood equivalent. See also *Historical Statistics, Colonial Times to 1970*, series L 72-86]

ITEM	1960	1970	1975	1980	1981	1982	1983	1984	1985	1986, prel.
Industrial roundwood:										
Domestic production ¹	8,920	11,105	10,575	12,090	11,090	10,825	12,010	12,685	12,450	13,715
Softwoods.....	6,930	8,635	8,380	9,280	8,485	8,410	9,275	9,790	9,680	10,470
Hardwoods.....	1,995	2,470	2,195	2,810	2,605	2,410	2,735	2,895	2,770	3,240
Imports	1,680	2,430	2,215	3,250	3,165	3,015	3,710	4,165	4,340	4,360
Exports	455	1,540	1,695	2,350	2,090	1,995	2,110	2,060	2,070	2,305
Consumption ²	10,145	11,995	11,105	12,995	12,160	11,840	13,610	14,790	14,720	15,770
Softwoods.....	8,065	9,425	8,875	10,335	9,855	9,540	10,960	11,965	11,955	12,600
Hardwoods.....	2,080	2,665	2,230	2,660	2,510	2,300	2,650	2,825	2,770	3,170
Lumber:										
Domestic production.....	35,080	5,215	4,890	5,300	4,780	4,635	5,370	5,770	5,665	6,485
Imports	610	955	930	1,540	1,490	1,460	1,915	2,130	2,345	2,285
Exports	135	195	255	395	380	320	360	340	305	385
Consumption.....	5,560	5,970	5,585	6,450	5,885	5,780	6,925	7,580	7,700	8,985
Plywood and veneer:										
Domestic production	705	1,020	1,165	1,175	1,180	1,135	1,385	1,400	1,420	1,470
Imports	60	170	170	120	140	115	160	145	165	185
Exports	(Z)	15	70	45	70	50	65	45	40	65
Consumption.....	765	1,170	1,265	1,250	1,250	1,200	1,460	1,500	1,550	1,585
Pulp products:										
Domestic production	2,575	3,835	3,485	4,390	4,125	3,980	4,165	4,355	4,185	4,545
Imports	985	1,280	1,105	1,565	1,515	1,415	1,605	1,860	1,810	1,880
Exports	275	720	715	1,070	995	900	965	930	920	1,085
Consumption.....	3,290	4,400	3,875	4,885	4,645	4,495	4,805	5,280	5,055	5,340
Logs:										
Imports	20	25	15	25	20	20	30	30	20	15
Exports	45	465	455	560	425	550	565	600	655	620
Pulpwood chips, exports	-	145	195	275	220	175	155	145	145	150
Other Industrial prod. ⁴ consumption.....	510	425	385	390	360	345	390	410	400	440
Fuelwood consumption.....	1,300	540	570	3,190	3,225	3,480	3,425	3,920	4,080	4,105

¹ Represents zero. ² Less than 500,000 cubic feet. ³ Includes log exports. ⁴ Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, etc. Alaska and Hawaii. ⁵ Excludes log imports.

NO. 1147. TIMBER PRODUCTS—PER CAPITA CONSUMPTION: 1960 TO 1986

[Based on total population estimated as of July 1. See also *Historical Statistics, Colonial Times to 1970*, series L 87-97]

PRODUCT	Unit	1960	1970	1975	1980	1981	1982	1983	1984	1985	1986, prel.
All products.....	Cu. ft.	63.3	61.1	54.1	71.0	66.9	65.6	72.6	78.9	78.8	82.3
Industrial roundwood	Cu. ft.	56.1	58.5	51.4	57.0	52.8	50.9	58.0	62.4	61.5	65.3
Lumber.....	Cu. ft.	30.8	29.1	25.8	28.3	25.6	24.9	29.5	31.8	32.2	34.7
Plywood and veneer.....	Cu. ft.	4.2	5.7	5.9	5.5	5.4	5.2	6.2	6.3	6.5	6.6
Pulp products.....	Cu. ft.	18.2	21.4	17.9	21.4	20.2	18.3	20.5	22.3	21.1	22.1
Other products.....	Cu. ft.	2.8	2.1	1.8	1.7	1.6	1.5	1.7	1.7	1.7	1.8
Fuelwood.....	Cu. ft.	7.2	2.6	2.6	14.0	14.0	15.0	14.6	16.5	17.0	17.0
Lumber.....	Bd. ft.	199	193	171	188	169	161	190	205	207	223
Plywood and veneer.....	Bd. ft.	25	34	32	30	29	28	34	34	35	36
Pulp products.....	Cords (128 cu. ft.)	.2	.3	.2	.3	.3	.2	.3	.3	.3	.3

Source of tables 1146 and 1147: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-86*, annual.

NO. 1148. SELECTED TIMBER PRODUCTS—PRODUCER PRICE INDEXES: 1980 TO 1987

[See also *Historical Statistics, Colonial Times to 1970*, series L 206-210]

PRODUCT	Unit	1980	1985	1986	1987
Lumber and wood products, except furniture	Dec. 1984=100..	(NA)	100.3	101.5	105.3
Logging camps and logging contractors	Dec. 1981=100..	(NA)	94.8	93.1	100.3
Sawmills and planing mills	Dec. 1984=100..	(NA)	99.7	100.7	106.7
Millwork, veneer, and plywood ¹	Dec. 1984=100..	(NA)	99.9	101.7	105.4
Softwood plywood	Dec. 1980=100..	91.4	90.0	91.5	93.3
Wood containers	June 1985=100..	(NA)	-	100.4	101.3
Wood buildings and mobile homes	Dec. 1984=100..	(NA)	100.8	102.1	103.6
Particleboard	Dec. 1982=100..	91.6	110.0	111.8	120.3
Paper and allied products	Dec. 1984=100..	(NA)	98.8	99.5	104.8
Pulp mills	Dec. 1984=100..	105.5	100.9	103.1	117.0
Paper mill products except building paper	Dec. 1982=100..	93.5	109.5	110.4	115.7
Paperboard mills	Dec. 1982=100..	97.3	112.0	113.1	126.5
Converted paper and paperboard products ²	Dec. 1984=100..	(NA)	100.3	101.8	104.9
Paperboard containers and boxes	Dec. 1984=100..	(NA)	98.4	97.3	104.2
Building paper and building board mills	Dec. 1985=100..	(NA)	-	101.6	104.2

- Represents zero. NA Not available. ¹ Includes structural wood members. ² Excludes containers and boxes.Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly.

NO. 1149. SELECTED SPECIES—STUMPPAGE PRICES IN CURRENT AND CONSTANT (1982) DOLLARS: 1970 TO 1987

[In dollars per 1,000 board feet. Stumpage prices are based on sales of sawtimber from National Forests. See also *Historical Statistics, Colonial Times to 1970*, series L 199-205]

SPECIES	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
CURRENT DOLLARS												
Softwoods:												
Douglas-fir ¹	41.90	169.50	250.30	394.40	432.20	350.20	118.20	161.80	132.90	126.20	180.70	190.20
Southern pine ²	44.10	57.00	134.50	155.20	155.40	172.00	127.20	140.60	139.40	90.70	103.60	135.70
Sugar pine ³	38.50	99.20	159.80	365.00	686.60	225.20	71.90	137.70	84.30	109.70	169.60	296.90
Ponderosa pine ³ & ⁴	32.10	71.20	164.70	239.00	206.10	195.20	66.90	104.00	122.70	101.40	156.60	213.60
Western hemlock ⁵	20.50	68.80	113.80	200.80	212.70	163.40	44.50	62.20	61.80	50.50	74.70	105.40
Hardwoods:												
All eastern hardwoods ⁶	26.90	33.90	41.10	46.80	52.40	50.90	56.40	60.10	90.10	65.40	69.90	88.10
Oak, white, red, and black ⁶	26.60	29.70	59.20	68.80	65.60	63.20	70.80	87.90	145.00	94.50	108.10	146.80
Maple, sugar ⁷	(NA)	42.10	80.50	68.90	70.10	67.80	71.10	55.10	80.50	70.00	66.20	80.50
CONSTANT (1982) DOLLARS⁸												
Softwoods:												
Douglas-fir ¹	113.60	290.20	358.10	501.10	481.80	357.30	118.20	159.50	128.20	122.30	160.40	165.00
Southern pine ²	119.50	97.60	192.40	197.20	173.10	175.50	127.20	138.80	134.40	87.90	103.40	132.00
Sugar pine ³	104.30	169.90	228.30	483.80	742.90	229.80	71.90	135.90	81.30	106.30	169.30	288.80
Ponderosa pine ³ & ⁴	87.00	121.90	235.80	303.70	229.50	199.20	66.90	102.70	118.30	98.30	156.30	207.80
Western hemlock ⁵	55.80	117.80	162.50	255.10	236.90	166.70	44.50	61.40	59.60	48.90	74.60	102.50
Hardwoods:												
All eastern hardwoods ⁶	72.90	58.00	58.80	59.50	58.40	51.80	58.40	59.30	86.90	83.40	69.80	85.70
Oak, white, red, and black ⁶	72.10	50.90	84.70	87.40	73.10	64.50	70.80	86.80	139.80	91.60	107.90	142.80
Maple, sugar ⁷	(NA)	72.10	86.60	87.50	78.10	69.20	71.10	54.40	77.60	67.80	66.10	78.30

NA Not available. ¹ Western Washington and western Oregon. ² Southern region. ³ Pacific Southwest region (formerly California region). ⁴ Includes Jeffrey pine. ⁵ Pacific Northwest region. ⁶ Eastern and Southern regions. ⁷ Eastern region. ⁸ Deflated by the producer price index, all commodities.Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-86*, annual.

Lumber Production and Consumption

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No. 1150. LUMBER PRODUCTION AND CONSUMPTION, BY KIND OF WOOD: 1960 TO 1987

(In millions of board feet, except as indicated. 1960 excludes Alaska and Hawaii. Based on sample survey; see source for sampling variability. See also *Historical Statistics, Colonial Times to 1970*, series L 98-112 and L 122-137.)

ITEM	1960	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Total production.....	32,926	34,688	32,619	35,354	31,672	30,010	34,572	37,065	36,445	41,999	44,883
Softwoods 1,2.....	26,672	27,530	26,747	28,229	25,420	24,949	28,927	30,801	30,479	34,815	37,422
Cedar.....	(S)	633	821	722	757	470	744	752	759	860	920
Douglas fir.....	8,832	7,727	7,329	6,853	6,868	4,842	6,434	7,809	7,751	9,600	10,406
Hem'cock.....	2,032	1,980	2,020	1,855	1,501	1,284	1,316	(NA)	(NA)	(NA)	(NA)
Ponderosa pine.....	3,169	3,429	3,544	3,269	2,884	2,350	2,669	3,678	3,773	3,967	4,123
Redwood.....	1,000	1,078	1,054	770	730	760	852	999	1,155	984	1,157
Southern yellow pine 2.....	5,660	7,083	6,967	8,217	8,415	8,764	10,181	10,648	10,230	11,443	12,068
White fir.....	2,224	2,063	2,012	1,643	1,253	974	1,316	2,017	2,272	2,553	2,891
White pine.....	675	898	947	(S)	502	272	(NA)	(NA)	(NA)	(NA)	(NA)
Hardwoods 1,2.....	6,254	7,138	5,872	7,115	6,252	5,061	5,644	6,264	5,966	7,184	7,471
Ash.....	125	159	124	(S)	130	122	224	218	218	257	265
Beech.....	195	188	198	183	95	88	112	111	89	125	116
Cottonwood and aspen.....	206	229	253	303	155	105	197	133	216	247	239
Elm.....	195	155	117	149	77	57	(NA)	(NA)	(NA)	(NA)	(NA)
Maple.....	602	742	531	3225	426	367	524	538	532	587	635
Oak.....	2,789	3,250	2,724	3,356	1,922	1,855	2,163	2,766	2,793	3,410	3,867
Sweet gum 4.....	331	376	245	371	231	183	278	300	293	375	329
Tulelo and black gum.....	292	335	251	(S)	79	64	(NA)	(NA)	(NA)	(NA)	(NA)
Yellow poplar.....	592	606	555	661	409	399	475	569	544	724	800
Domestic consumption 5.....	35,225	38,073	36,100	40,104	37,919	36,273	45,138	48,693	50,077	54,828	(NA)
Percent net imports 6.....	8.7	12.7	12.2	18.7	19.0	20.2	22.1	24.0	26.0	26.6	(NA)
Softwoods.....	28,974	31,585	30,309	33,832	32,064	31,173	39,742	42,857	44,243	47,493	(NA)
Per capita (bd. ft.) 7.....	164	155	141	149	140	134	170	181	185	197	(NA)
Mill stocks, yearend.....	5,285	4,340	4,063	4,228	4,167	4,270	4,806	4,394	4,765	4,935	(NA)
Exports.....	688	1,152	1,373	1,956	1,878	1,630	1,745	1,698	1,515	1,877	(NA)
Imports.....	3,631	5,769	5,711	9,540	9,205	9,119	11,947	13,270	14,606	14,238	(NA)
Hardwoods.....	6,252	6,488	5,791	6,272	5,855	5,098	5,397	5,836	5,834	7,334	(NA)
Per capita (bd. ft.) 7.....	35	32	27	28	25	22	23	25	24	30	(NA)
Mill stocks, yearend.....	2,067	1,144	875	1,572	1,727	1,539	1,334	1,581	1,719	1,636	(NA)
Exports.....	173	138	165	379	405	356	478	467	397	498	(NA)
Imports.....	291	347	224	293	291	211	261	328	364	347	(NA)

NA Not available. S Figure does not meet publication standards. 1 Includes types not shown separately. 2 Beginning 1986, data not directly comparable to previous years due to inclusion of 200 sawmills in the survey for the first time; see source.

³ Excludes hard maple. ⁴ Red and sap. ⁵ Source: Through 1970, Copeland Economics Group, Inc., Stamford, CT; thereafter, National Forest Products Association, Washington, DC. *The Economics Monthly Bulletin*, quarterly edition (copyright).

⁶ Imports minus exports. ⁷ Based on estimated resident population as of July 1.

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports*, series MA-24T, annual.

No. 1151. LUMBER PRODUCTION, BY GEOGRAPHIC AREA: 1970 TO 1987

(In billion board feet. Data based in part on a sample of sawmills and are subject to sampling variability; see source. For composition of divisions, see fig. 1, inside front cover. See *Historical Statistics, Colonial Times to 1970*, series L 113-121, for data by regions)

SECTION AND DIVISION	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
United States.....	34.7	32.6	39.4	40.5	40.6	35.4	31.7	30.0	34.6	37.1	36.4	42.0	44.9
North ³	4.4	4.1	(NA)	(NA)	(NA)	(NA)	(NA)	3.8	4.3	4.5	4.2	4.9	(NA)
Hardwood.....	3.4	3.0	(NA)	(NA)	(NA)	(NA)	(NA)	2.7	3.0	3.3	3.0	3.6	(NA)
Softwood.....	1.0	1.1	(NA)	(NA)	(NA)	(NA)	(NA)	1.1	1.3	1.2	1.2	1.4	(NA)
South ²	10.8	9.7	(NA)	(NA)	(NA)	(NA)	(NA)	10.8	12.7	13.4	13.0	15.1	(NA)
Hardwood.....	3.6	2.7	(NA)	(NA)	(NA)	(NA)	(NA)	2.0	2.4	2.8	2.7	3.4	(NA)
Softwood.....	7.2	7.0	(NA)	(NA)	(NA)	(NA)	(NA)	6.8	10.3	10.7	10.2	11.7	(NA)
West ²	19.4	18.8	21.8	21.7	21.1	17.2	(NA)	15.4	17.6	19.1	19.3	22.0	(NA)
Hardwood.....	.1	.1	.2	.2	.2	.3	(NA)	.2	.2	.2	.2	.2	(NA)
Softwood.....	19.3	18.8	21.6	21.4	20.9	16.9	(NA)	15.1	17.4	19.0	19.1	21.7	(NA)
New England.....	.7	.8	.9	1.0	1.0	1.1	.7	1.0	1.2	1.1	1.1	1.2	1.3
Middle Atlantic.....	.8	.7	.9	.9	.9	.9	.5	.8	.8	.7	.8	.9	.9
East North Central.....	1.2	1.1	1.3	1.4	1.4	1.3	1.0	1.1	1.2	1.3	1.3	1.5	1.6
West North Central.....	.6	.5	.6	.7	.6	.6	.2	.3	.4	.4	.6	.7	.8
South Atlantic.....	5.2	4.7	5.3	5.4	5.8	5.2	4.4	5.4	6.5	6.7	6.4	7.4	7.7
East South Central.....	3.4	3.0	3.6	3.7	3.6	3.2	2.8	3.2	3.8	4.2	4.1	5.0	5.3
West South Central.....	3.2	3.0	3.5	3.6	3.2	2.9	2.3	2.8	3.1	3.3	3.1	3.4	3.7
Mountain.....	4.2	3.9	4.7	4.7	4.5	3.8	3.3	3.3	3.8	4.4	4.3	4.8	4.9
Pacific.....	15.3	14.8	17.1	17.0	16.6	13.4	11.2	12.2	13.6	14.8	14.8	17.0	23.7

NA Not available. ¹ Includes amounts not specified by division. ² Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-86*, annual. Sections are as defined by the Forest Service, see table 1144.

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports*, series MA-24T, annual.

Forests and Fisheries

No. 1152. WOOD PRODUCTS—PRODUCTION: 1970 TO 1987

ITEM	UNIT	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987, prel.
Hardwood flooring.....	Mil. bd. ft.	333	155	292	315	275	365	400	416	487	1,560
Softwood plywood.....	Bil. sq. ft., 3/4" basis.....	14.1	15.1	15.5	15.5	15.1	18.3	18.9	19.3	19.9	21.0
Insulation boards ¹	1,000 short tons.....	1,219	1,249	1,051	1,970	1,858	593	713	785	735	1,688
Hardboard ²	1,000 short tons.....	1,463	1,784	1,970	1,858	1,741	2,040	1,831	2,095	1,933	1,897
Particleboard.....	Mil. sq. ft., 3/4" basis.....	1,731	2,503	2,950	2,869	2,393	3,009	3,196	3,331	3,603	3,706

¹ Estimated. ² Beginning 1982, data are for shipments.Source: U.S. Dept. of Commerce, International Trade Administration, *Forest Products Review*, monthly (discontinued April 1983); and unpublished data. Based on reports of U.S. Bureau of the Census and National Particleboard Association, Silver Spring, MD.

No. 1153. PAPER AND PAPERBOARD—PRODUCTION AND CONSUMPTION: 1970 TO 1987

[In millions of short tons. See also *Historical Statistics, Colonial Times to 1970*, series L 172, L 174, and L 178-181]

ITEM	PRODUCTION						CONSUMPTION ¹					
	1970	1975	1980	1985	1986	1987	1970	1975	1980	1985	1986	1987
Total paper and paperboard	51.7	51.0	63.5	68.8	72.7	76.2	56.0	54.1	67.1	76.3	79.9	83.8
Paper: Newsprint.....	3.5	3.7	4.7	5.4	5.6	5.8	9.8	9.0	11.4	12.8	13.0	13.7
Coated printing, converting	3.2	3.2	4.6	5.9	6.3	6.9	3.2	3.0	4.6	6.3	6.7	7.4
Uncoated free sheet.....	5.1	5.3	8.0	9.7	10.4	11.0	5.1	5.3	8.0	10.0	10.8	11.3
Other printing, writing, etc.....	2.6	2.5	2.9	3.0	3.0	2.7	2.6	3.4	4.2	4.5	4.7	
Packaging and industrial converting.....	5.3	4.6	5.5	5.2	5.1	5.3	5.1	4.3	5.2	5.1	5.1	5.1
Tissue and other machine creped.....	3.7	4.0	4.4	4.9	5.1	5.1	3.7	3.9	4.3	5.0	5.1	5.3
Paperboard: Unbleached kraft.....	11.5	11.5	15.3	16.4	17.7	18.9	9.9	10.5	13.0	14.6	15.5	16.7
Bleached kraft.....	3.3	3.3	3.8	3.9	4.2	4.4	3.3	3.1	3.3	3.4	3.8	4.0
Semicentiful.....	3.5	3.7	4.7	5.1	5.4	5.6	3.4	3.6	4.4	5.0	5.3	5.5
Recycled finish.....	7.0	6.2	7.1	7.6	8.1	8.5	7.0	6.2	7.0	7.7	8.0	8.4
Construction paper and board ²	3.0	3.0	2.6	3.18	3.18	3.18	3.0	3.0	3.21	3.20	3.20	3.20

¹ Total consumption of paper and paperboard includes net imports of paper and paperboard converted products; not available by grade. ² Source: 1970-1980 U.S. Bureau of the Census, *Current Industrial Reports*. Includes wet machine board, approximately 100,000-160,000 tons per year. ³ Estimated.Source: Except as noted, American Paper Institute, Inc., New York, NY, *Statistics of Paper, Paperboard, and Woodpulp*, annual.

No. 1154. NEWSPRINT—PRODUCTION, STOCKS, CONSUMPTION, IMPORTS, AND PRICE INDEX: 1960 TO 1987

[In thousands of metric tons, except price index and imports (imports shown in short tons). See also *Historical Statistics, Colonial Times to 1970*, series L 192-198]

COUNTRY AND ITEM	1960	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Canada: Production	6,114	7,808	8,986	8,825	8,950	8,109	8,486	9,013	8,988	9,289	9,673
Shipments from mills.....	6,125	7,795	7,010	8,622	8,915	8,054	8,499	9,018	8,996	9,302	9,761
Stocks at mills, end of year.....	127	214	66	144	194	256	303	298	290	277	193
United States:											
Estimated consumption ¹	6,634	8,805	8,395	10,088	10,164	10,107	10,589	11,431	11,587	11,937	12,322
Production.....	1,849	3,142	3,348	4,239	4,752	4,574	4,688	5,025	4,924	5,107	5,300
Shipments from mills.....	1,842	3,136	3,347	4,234	4,735	4,526	4,674	5,065	4,927	5,115	5,310
Stocks, end of year: At mills.....	24	30	19	21	38	86	99	60	57	49	38
At and in transit to publishers.....	570	680	686	732	961	854	790	874	910	849	900
Imports ²	5,412	6,635	5,847	7,280	6,978	6,531	6,919	7,899	8,472	8,589	8,976
Producer price index (1982=100).....	30.4	34.1	58.3	38.85	39.75	100.0	95.9	102.3	105.3	103.3	112.3

¹ By all users. Based on American Paper Institute data. ² Source: Reports of U.S. Bureau of the Census. Includes Puerto Rico and beginning 1981, Virgin Islands. ³ Average for 11 months.Source: Except as noted, U.S. Bureau of Economic Analysis, *Survey of Current Business*, monthly. Data from American Paper Institute, Inc., New York, NY, and Canadian Pulp & Paper Association.

No. 1155. WASTEPAPER UTILIZATION AND RECOVERY RATES: 1960 TO 1987

[In millions of short tons, except percent. Recovery rate is ratio of total wastepaper recovered to new supply. Wastepaper utilization is the ratio of wastepaper consumption at paper and board mills to paper and board production. See *Historical Statistics, Colonial Times to 1970*, series L 175, for U.S. wastepaper consumption.]

ITEM	1960	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Paper and board, production ¹	33.9	51.7	51.0	63.5	64.3	61.0	66.8	70.3	68.8	72.7	76.2
Wastepaper consumption.....	28.0	11.8	11.7	14.9	15.0	14.4	15.6	16.7	16.4	17.9	19.0
Wastepaper utilization rate (percent).....	26.5	22.8	23.0	23.4	23.3	23.7	24.4	23.8	23.8	24.7	24.9
Other wastepaper uses ³.....	.20	.42	.54	.47	.48	.49	.48	.46	.48	.49	.50
Wastepaper exports.....	.15	.41	.86	2.66	2.21	2.13	3.24	3.28	3.75	4.42	
Total wastepaper recovered.....	9.3	12.6	13.1	18.0	17.7	17.0	18.6	20.3	20.0	22.1	23.8
Paper and board, new supply ⁴	38.5	56.0	54.1	67.1	68.0	64.7	71.2	77.0	76.3	79.8	83.8
Recovery rate (percent).....	24.2	22.4	24.2	26.8	26.0	26.2	26.1	26.4	26.3	27.7	28.4

¹ Excludes hard pressed board; includes construction paper and board, and wet machine board. ² Source: U.S. Bureau of the Census, Report FT 446. ³ Estimated. ⁴ Excludes production of hard pressed board.Source: Except as noted, American Paper Institute, Inc., New York, NY, *Statistics of Paper, Paperboard, and Woodpulp*, annual, and unpublished data.

NO. 1156. SELECTED WOOD PRODUCTS—PRODUCTION AND CONSUMPTION: 1970 TO 1987

[See also *Historical Statistics of the United States, Colonial Times to 1970, series L 151-170*]

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987
PULPWOOD										
Receipts, total	Mil. cords ¹	68.9	65.4	81.0	77.3	83.4	88.0	85.4	90.6	94.5
Softwood	Mil. cords ¹	52.4	49.3	60.2	56.4	59.8	62.9	60.2	63.3	65.8
Hardwood	Mil. cords ¹	16.5	16.2	20.8	20.9	23.6	25.2	25.1	27.3	28.7
Consumption, total	Mil. cords ¹	67.6	65.4	79.7	77.6	83.5	87.0	84.8	91.1	92.9
Softwood	Mil. cords ¹	51.3	48.9	58.8	56.4	59.9	62.0	59.7	63.1	64.7
Hardwood	Mil. cords ¹	16.3	16.5	20.9	21.1	23.6	24.9	25.1	28.1	28.3
Inventories ²	Mil. cords ¹	6.6	6.6	6.7	5.4	5.2	5.2	5.1	4.7	5.5
WOODPULP										
Production	Mil. short tons	43.9	43.1	53.0	51.0	54.1	57.8	57.7	60.6	62.4
Consumption, ³ total	Mil. short tons	43.2	42.4	52.4	50.2	54.0	57.5	56.8	60.0	61.5
Own pulp	Mil. short tons	38.9	38.5	46.6	44.6	47.7	50.3	49.7	52.6	53.9
Purchased pulp	Mil. short tons	4.3	3.9	5.9	5.6	6.3	7.2	7.0	7.5	7.6
PLYWOOD										
Softwood:										
Production	Mil. sq. ft. ⁴	14,149	15,706	15,483	15,134	18,281	18,865	19,341	20,363	21,052
Consumption, total	Mil. sq. ft. ⁴	(NA)	(NA)	15,145	14,741	17,737	18,526	19,122	19,880	20,469
Value	Mil. dol.	949	(NA)	2,582	2,177	2,877	2,995	3,080	3,237	3,296
Hardwood:										
Production	Mil. sq. ft. ⁵	1,904	1,280	1,311	1,163	1,248	1,185	1,016	1,088	1,173
Consumption, total	Mil. sq. ft. ⁵	5,772	4,870	3,416	3,173	4,324	3,831	4,311	4,884	5,090
Value	Mil. dol.	516	586	977	920	1,131	1,199	1,192	1,320	1,579

NA. Not available. ¹ Standard cords. 128 cubic feet roughwood bases. ² As of Dec. 31. ³ In the manufacture of paper and board. ⁴ $\frac{1}{4}$ % basis. ⁵ Surface measure.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA26-A, MA24-H and MA24-F.

NO. 1157. SELECTED TIMBER PRODUCTS—IMPORTS AND EXPORTS: 1970 TO 1987

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
IMPORTS¹											
Lumber, total ²	Mil. bd. ft.	6,114	5,976	9,866	9,523	9,360	12,254	13,632	14,996	14,619	15,234
From Canada	Percent	96.0	96.0	97.5	97.5	98.2	98.3	97.9	97.6	97.5	98.9
Softwoods	Mil. bd. ft.	5,778	5,724	9,573	9,232	9,150	11,993	13,304	14,632	14,272	14,723
Value	Mil. dol.	434	717	1,826	1,763	1,624	2,569	2,681	2,898	2,969	3,060
Hardwoods	Mil. bd. ft.	337	252	293	281	211	260	328	364	347	511
Value	Mil. dol.	82	70	152	154	104	134	173	180	168	273
Logs, total	Mil. bd. ft. ³	144	85	128	101	117	165	147	99	78	83
From Canada	Percent	79.6	93.9	97.4	98.3	98.6	97.9	97.4	81.8	77.9	91.6
Softwoods	Mil. bd. ft. ³	107	69	114	88	99	142	117	71	52	69
Value	Mil. dol.	9	12	17	17	23	24	15	17	7	19
Hardwoods	Mil. bd. ft. ³	38	17	13	14	18	23	30	28	26	14
Value	Mil. dol.	5	3	3	3	3	3	5	4	4	3
Paper and board ⁴	1,000 tons	7,115	6,253	8,780	8,339	8,024	8,966	11,075	11,522	11,939	12,837
Value	Mil. dol.	1,039	1,806	3,418	3,872	3,682	4,019	5,324	5,698	6,038	6,926
Woodpulp	1,000 tons	3,518	3,078	4,051	4,087	3,656	4,093	4,490	4,466	4,594	4,963
Value	Mil. dol.	483	1,007	1,684	1,784	1,493	1,472	1,845	1,521	1,606	2,069
Plywood	Mil. sq. ft.	4,171	3,913	2,477	3,047	2,270	3,393	3,056	3,609	3,941	4,094
Value	Mil. dol.	208	260	409	465	331	451	438	463	519	638
EXPORTS											
Lumber, total ²	Mil. bd. ft.	1,243	1,618	2,494	2,406	2,021	2,270	2,160	1,945	2,427	3,257
To: Canada	Percent	21.7	34.0	25.3	30.3	20.7	28.3	25.8	29.7	22.0	20.7
Japan	Percent	30.8	31.9	26.0	21.8	31.1	27.8	26.0	32.1	35.4	37.6
Europe	Percent	24.1	15.1	23.8	16.8	20.3	20.2	16.0	15.1	16.8	15.7
Softwoods	Mil. bd. ft.	1,115	1,405	2,007	1,928	1,635	1,756	1,624	1,518	1,878	2,464
Value	Mil. dol.	163	346	789	664	582	609	541	497	644	656
Hardwoods	Mil. bd. ft.	128	213	487	479	386	514	527	427	548	793
Value	Mil. dol.	31	68	272	269	229	305	300	263	350	483
Logs, total	Mil. bd. ft. ³	2,741	2,867	3,261	2,489	3,208	3,307	3,495	3,843	3,627	4,108
To: Canada	Percent	10.8	10.4	9.7	9.8	9.4	10.5	12.1	11.8	12.2	10.3
Japan	Percent	86.3	84.8	78.0	71.3	61.7	55.4	50.4	49.4	57.3	58.3
China: Mainland	Percent	(NA)	(NA)	2.7	8.8	17.1	21.9	24.8	27.8	17.0	14.1
Softwoods	Mil. bd. ft. ³	2,572	2,501	3,109	2,877	3,115	3,196	3,369	3,732	3,488	3,959
Value	Mil. dol.	681	1,452	1,003	1,174	1,068	1,079	1,189	1,129	1,129	1,526
Hardwoods	Mil. bd. ft. ³	320	691	1,452	1,003	1,174	1,068	1,125	111	139	149
Value	Mil. dol.	89	66	152	112	93	112	125	91	97	118
Paper and board ⁴	1,000 tons	2,817	3,116	5,214	4,841	4,248	4,569	4,387	4,071	4,816	5,304
Value	Mil. dol.	602	1,315	2,773	2,691	2,559	2,481	2,552	2,266	2,549	3,104
Woodpulp	1,000 tons	3,095	2,782	3,806	3,678	3,395	3,644	3,584	3,798	4,459	4,888
Value	Mil. dol.	464	875	1,652	1,661	1,415	1,362	1,502	1,354	1,663	2,250
Plywood	Mil. sq. ft.	183	871	420	741	493	615	407	365	656	655
Value	Mil. dol.	18	141	108	178	117	143	94	86	146	194

NA. Not available. ¹ Customs value of imports; see text, section 29. ² Includes railroad ties. ³ Log scale. ⁴ Includes paper and board products. Excludes hardboard.

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics: 1950 to 1987*.

Forests and Fisheries

NO. 1158. FISHERY PRODUCTS—DOMESTIC CATCH AND IMPORTS, SUMMARY: 1970 TO 1987

[Live weight, in millions of pounds, except percent. 1978–1987 preliminary. For data on commercial catch for selected countries, see table 1438, section 31. See *Historical Statistics, Colonial Times to 1970*, series L 224–226, for domestic catch.]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	11,474	10,184	11,509	11,831	11,357	11,353	12,011	12,352	12,552	15,160	14,368	15,744
For human food	6,213	6,394	8,135	8,251	8,006	8,267	7,968	8,413	8,498	9,337	9,620	10,561
Finfish	(NA)	4,848	5,263	6,324	6,139	6,316	6,090	6,358	6,303	6,991	7,087	7,919
Shellfish ¹	(NA)	1,546	1,872	1,927	1,867	1,951	1,878	2,055	2,195	2,346	2,533	2,642
For industrial use	5,281	3,770	3,374	3,580	3,351	3,086	4,043	3,935	4,054	5,813	4,748	5,183
Domestic catch ²	4,917	4,877	6,028	6,267	6,482	5,977	6,387	6,439	6,438	6,258	6,031	6,898
Percent of total	42.8	47.9	52.4	53.0	57.1	52.7	53.0	52.1	51.3	41.3	42.0	43.8
For human food	2,537	2,485	3,177	3,318	3,654	3,547	3,285	3,238	3,320	3,294	3,393	3,946
Finfish	(NA)	1,546	2,018	2,204	2,516	2,414	2,324	2,351	2,348	2,273	2,240	2,769
Shellfish ¹	(NA)	917	1,159	1,114	1,138	1,133	961	887	972	1,021	1,183	1,177
For industrial use	2,380	2,412	2,851	2,949	2,828	2,430	3,082	3,201	3,118	2,964	2,638	2,950
Imports ³	6,557	5,287	5,481	5,584	4,875	5,376	5,644	5,913	6,114	8,892	8,337	8,848
Percent of total	57.2	52.1	47.6	47.0	42.9	47.3	47.0	47.9	48.7	58.7	58.0	56.2
For human food	3,876	3,929	4,958	4,933	4,352	4,720	4,683	5,175	5,178	6,043	6,227	6,615
Finfish	(NA)	3,300	4,245	4,120	3,623	3,902	3,768	4,007	3,955	4,718	4,847	5,150
Shellfish ¹	(NA)	917	713	813	729	818	917	1,168	1,223	1,325	1,380	1,465
For industrial use ³	2,881	1,358	523	631	523	656	981	738	936	2,849	2,110	2,233

NA, Not available. ¹For univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.), the weight of meats, excluding the shell, is reported. ²Excludes imports of edible fishery products consumed in Puerto Rico; includes landings of tuna caught by foreign vessels in American Samoa. ³Fish meal and sea herring.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

NO. 1159. FISHERIES—EMPLOYMENT, FISHING CRAFT, AND ESTABLISHMENTS: 1970 TO 1986

[In thousands. As of Dec. 31. 1978–1986 preliminary. Data for employment and establishments exclude Alaska. See also *Historical Statistics, Colonial Times to 1970*, series L 254–261]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Persons employed in U.S.													
Fishermen	227	280	267	280	257	267	296	303	314	333	340	351	347
Shore workers ¹	140	168	174	182	172	184	193	198	216	223	230	239	247
87	92	93	98	85	83	103	105	98	110	110	112	100	
Craft used	88	103	103	107	104	103	113	115	123	127	127	130	128
Vessels, 5 net tons and over	14	16	17	17	16	18	19	20	20	21	24	24	36
Motorboats	72	85	84	88	84	84	93	93	102	105	102	104	88
Other boats	2	2	2	2	2	1	1	2	1	1	1	2	2
Fishery shore establishments	3.7	3.6	3.6	3.6	3.3	3.4	3.6	3.6	3.6	3.9	4.0	4.0	4.0

¹Seasonal average for processors and wholesaling plants.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

NO. 1160. FISHERIES—QUANTITY AND VALUE OF DOMESTIC CATCH: 1960 TO 1987

[1978–1987 preliminary. See also *Historical Statistics, Colonial Times to 1970*, series L 224–226, L 229, and L 310]

YEAR	QUANTITY (mil. lb.)			Ex- ves- sel value (mil. dol.)	Aver- age price per lb. (cents)	YEAR	QUANTITY (mil. lb.)			Ex- ves- sel value (mil. dol.)	Aver- age price per lb. (cents)
	Total	For human food	For indus- trial prod- ucts ²				Total	For human food	For indus- trial prod- ucts ²		
1960	4,942	2,498	2,444	354	7.2	1979	6,267	3,918	2,949	2,234	35.6
1965	4,777	2,587	2,190	446	9.3	1980	6,482	3,654	2,828	2,237	34.5
1970	4,917	2,637	2,380	613	12.5	1981	5,977	3,547	2,430	2,388	40.0
1972	4,806	2,435	2,371	748	15.8	1982	6,367	3,285	3,082	2,390	37.5
1973	4,859	2,388	2,460	937	19.3	1983	6,439	3,238	3,201	2,355	36.6
1974	4,967	2,498	2,471	932	18.7	1984	6,438	3,320	3,118	2,350	36.5
1975	4,877	2,485	2,412	977	20.0	1985	6,258	3,294	2,964	2,326	37.2
1976	5,388	2,775	2,613	1,349	25.0	1986	6,031	3,393	2,638	2,763	45.8
1977	5,271	2,952	2,319	1,554	29.5	1987	6,896	3,946	2,950	3,115	45.2
1978	6,028	3,177	2,851	1,854	30.7						

¹Live weight. ²Meat, oil, fish solubles, homogenized condensed fish, shell products, bait, and animal food.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

Fisheries—Quantity and Value

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NO. 1161. FISHERIES—QUANTITY AND VALUE OF CATCH, BY STATE, AND CATCH OF PRINCIPAL SPECIES, BY AREA: 1980 TO 1987

[Catch in millions of pounds, live weight, except as indicated; value in millions of dollars. Preliminary. See also *Historical Statistics, Colonial Times to 1970*, series L 282-293]

AREA, STATE, CATCH, AND VALUE	1980	1985	1986	1987	AREA, STATE, CATCH, AND VALUE	1980	1985	1986	1987
Total:					South Atlantic—Con.				
Catch.....	6,482	6,258	6,031	6,896	Georgia:				
Value.....	2,237	2,326	2,763	3,115	Catch.....	19	17	16	15
New England:					Value.....	20	21	25	20
Catch.....	788	580	563	545	Florida (east coast):				
Value.....	327	419	449	512	Catch.....	77	66	47	48
Maine:					Value.....	39	57	42	45
Catch.....	245	175	175	170	Catch for certain species:				
Value.....	93	101	108	132	Crabs.....	55	48	40	47
New Hampshire:					Scallops, Calico.....	-	13	2	8
Catch.....	19	8	8	8	Shrimp.....	33	28	23	23
Value.....	5	5	6	8	Gulf States:				
Massachusetts:					Catch.....	1,979	2,412	2,968	2,501
Catch.....	438	296	272	258	Value.....	463	597	781	720
Value.....	178	232	244	279	Florida (west coast):				
Rhode Island:					Catch.....	115	117	119	124
Catch.....	81	104	102	100	Value.....	86	114	112	111
Value.....	46	70	75	77	Alabama:				
Connecticut:					Catch.....	25	30	37	24
Catch.....	5	7	7	9	Value.....	25	41	64	45
Value.....	5	12	16	16	Mississippi:				
Catch for certain species:					Catch.....	232	471	418	438
Clams.....	15	22	22	18	Value.....	25	40	46	48
Cod.....	118	83	61	59	Louisiana:				
Crabs.....	7	8	6	6	Catch.....	1,412	1,693	1,877	1,804
Flounder.....	118	98	81	68	Value.....	174	225	313	316
Haddock.....	55	14	11	7	Texas:				
Herring, sea.....	184	52	79	84	Catch.....	94	109	117	111
Lobster, American.....	58	44	43	43	Value.....	153	177	246	200
Ocean perch, Atlantic.....	24	10	7	4	Catch for certain species:				
Pollack.....	40	43	54	45	Crabs.....	45	53	59	71
Scallops, sea.....	17	10	12	18	Mullet.....	31	17	18	26
Squid.....	6	15	19	18	Oysters (meats).....	17	25	20	18
Whiting.....	18	31	31	26	Shrimp.....	208	263	304	257
Middle Atlantic:					Great Lakes:				
Catch.....	244	151	156	163	Catch.....	44	54	48	42
Value.....	97	101	114	128	Value.....	14	15	14	17
New York:					Pacific Coast:				
Catch.....	39	39	43	41	Catch.....	2,140	1,816	1,922	2,493
Value.....	45	38	45	53	Value.....	1,025	883	1,065	1,360
New Jersey:					Washington:				
Catch.....	201	108	108	116	Catch.....	156	167	187	205
Value.....	50	61	67	73	Value.....	86	93	111	150
Delaware:					Oregon:				
Catch.....	4	5	5	6	Catch.....	126	101	113	139
Value.....	2	2	2	2	Value.....	56	46	62	95
Catch for certain species:					California:				
Clams (meats).....	40	73	77	68	Catch.....	804	383	386	452
Scup or porgy.....	8	2	6	6	Value.....	323	133	139	173
Squid.....	3	8	12	20	Alaska:				
Chesapeake Bay:					Catch.....	1,054	1,185	1,236	1,687
Catch.....	717	815	617	791	Value.....	580	591	753	942
Value.....	130	124	131	160	Catch for certain species:				
Maryland:					Anchovies.....	107	15	13	13
Catch.....	80	92	89	81	Bonito.....	14	5	1	11
Value.....	45	47	51	52	Cod.....	20	120	104	171
Virginia:					Crabs.....	347	129	160	174
Catch.....	637	723	528	710	Filander.....	60	68	84	106
Value.....	85	76	80	106	Hake.....	12	16	26	39
Catch for certain species:					Halibut.....	19	61	78	78
Alewives.....	1	1	1	2	Herring, sea.....	107	142	131	123
Clams (meats).....	36	47	41	44	Jack mackerel.....	44	21	24	27
Crabs.....	65	91	84	76	Mackerel.....	65	75	85	94
Oysters (meats).....	21	8	11	9	Oysters.....	7	8	6	10
Scallops, sea.....	6	3	4	7	Pollack.....	3	93	130	552
South Atlantic:					Rockfish.....	106	82	92	118
Catch.....	473	311	249	235	Sablefish.....	22	83	85	103
Value.....	148	156	155	150	Salmon.....	614	727	659	552
North Carolina:					Shrimp.....	98	35	63	72
Catch.....	356	215	169	157	Tuna.....	367	64	77	79
Value.....	89	65	63	63	Mississippi River and tributaries:				
South Carolina:					Catch.....	85	92	96	110
Catch.....	21	13	17	15	Value.....	21	29	34	39
Value.....	20	14	25	22	Hawaii:				

— Represents zero. ¹Collected largely by State fishery agencies, and compiled by National Marine Fisheries Service. Includes, in addition to the Great Lakes, small amounts for Lake St. Clair, Lake of the Woods, Namakan Lake, and Rainy Lake. Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

Forests and Fisheries

NO. 1162. FISHERIES—DOMESTIC CATCH AND VALUE BY SELECTED MAJOR U.S. PORTS:
1983 TO 1987(See *Historical Statistics, Colonial Times to 1970*, series L 236-253, for data on quantity and value of catch)

PORT	CATCH (mil. lb.)					VALUE (mil. dol.)				
	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987
Cameron, LA.....	743.9	679.2	673.6	616.8	672.4	39.5	38.2	29.9	34.8	31.9
Pascagoula-Moss Point, MS.....	380.2	425.3	423.2	365.5	391.6	23.2	25.0	18.4	20.4	20.3
Empire-Venice, LA.....	281.9	383.5	224.5	317.6	357.4	31.8	41.6	34.3	47.1	60.1
Dulac-Chauvin, LA.....	269.2	327.2	398.6	294.6	331.7	47.7	59.7	59.9	71.0	65.6
Intercoastal City, LA.....	(NA)	(NA)	(NA)	298.9	314.3	(NA)	(NA)	(NA)	11.3	13.4
Kodiak, AK.....	89.0	113.9	96.1	141.2	204.1	60.4	69.9	65.8	89.8	132.1
Los Angeles, CA.....	262.3	237.0	150.3	187.4	203.1	85.1	84.6	32.5	29.5	55.6
Dutch Harbor-Unalaska, AK.....	48.9	46.9	106.3	88.3	128.2	36.4	20.3	21.3	37.2	62.7
Gloucester, MA.....	150.9	179.1	116.5	110.0	93.0	38.0	37.1	37.1	37.8	34.0
Beaufort-Morehead City, NC.....	167.2	185.3	133.2	98.8	85.7	21.6	21.6	22.7	24.7	22.7
New Bedford, MA.....	111.8	99.5	90.8	65.8	78.7	109.2	107.7	103.2	106.0	114.3
Cordova, AK.....	(NA)	(NA)	(NA)	69.6	(NA)	(NA)	(NA)	(NA)	(NA)	41.9
Cape May-Wildwood, NJ.....	43.6	34.1	30.3	36.6	56.8	24.8	21.4	18.1	20.9	30.5
Bellingham, WA.....	23.9	34.0	38.8	45.8	47.5	8.6	14.9	16.6	28.8	27.4
Astoria, OR.....	28.5	23.1	25.5	36.8	46.6	11.2	9.2	9.5	16.4	24.6
Point Judith, RI.....	61.6	69.9	56.8	52.1	46.6	25.5	27.3	28.0	28.5	27.4
Portland, ME.....	53.9	37.0	36.1	34.9	43.8	16.0	14.5	17.2	22.4	35.8
Petersburg, AK.....	50.3	54.1	(NA)	85.2	42.4	19.3	24.9	(NA)	38.1	36.9
Port Hueneme-Oxnard-Ventura, CA.....	22.7	9.4	19.9	31.0	42.3	(NA)	(NA)	5.4	5.8	8.1
Rockland, ME.....	54.6	42.9	58.6	43.4	38.7	12.3	9.4	11.1	9.1	8.1

NA Not available. * Record.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

NO. 1163. DOMESTIC FISH AND SHELLFISH CATCH AND VALUE, BY SPECIES: 1982 TO 1987

SPECIES	QUANTITY (1,000 lb.)					VALUE (\$1,000)				
	1982-87 5 year average	1984	1985	1986	1987	1984	1985	1986	1987	
Total.....	(X)	6,437,783	6,257,642	6,030,634	6,895,726	2,350,462	2,326,237	2,762,823	3,114,713	
Fish, total	(X)	5,456,194	5,214,383	4,870,763	5,708,215	1,188,612	1,193,427	1,319,134	1,629,041	
Anchoovies.....	14,283	17,796	14,566	13,436	12,857	5,631	2,704	2,523	2,706	
Bluefish.....	14,689	12,713	13,743	13,968	15,226	2,382	2,363	2,413	3,254	
Butterfish.....	14,912	26,026	10,338	9,880	10,315	7,056	3,537	6,576	6,496	
Cod: Atlantic.....	91,529	86,775	82,823	61,134	59,100	36,143	35,140	36,142	44,179	
Pacific.....	104,040	115,608	120,275	104,443	170,611	20,986	18,555	11,337	31,443	
Croaker.....	11,275	10,570	11,098	12,382	11,044	3,552	3,658	3,883	4,396	
Flounders.....	307,997	219,995	195,718	169,050	199,711	124,269	128,121	124,586	145,080	
Haddock.....	237,956	25,997	14,416	10,868	5,673	18,352	13,545	10,911	8,522	
Halibut.....	53,930	47,903	61,032	77,691	76,107	25,435	38,376	82,925	88,254	
Herring, sea:										
Atlantic.....	66,904	73,784	57,133	79,381	84,536	3,722	2,868	4,314	4,388	
Herring, sea Pacific.....	127,228	104,742	142,074	130,764	122,598	22,159	47,025	44,598	47,916	
Jack mackerel.....	33,058	23,950	20,852	23,672	26,671	1,963	1,770	1,775	1,831	
Mackerel, Pacific.....	77,867	93,406	75,453	85,444	93,755	7,612	6,324	6,408	6,493	
Menhaden.....	2,750,142	2,891,076	2,739,401	2,391,383	2,712,285	117,297	100,680	93,762	104,425	
Mullet.....	23,861	22,782	21,205	21,646	30,125	5,426	5,720	6,043	8,224	
Ocean perch,										
Atlantic.....	12,136	12,333	9,666	6,576	4,202	3,550	3,179	3,160	2,709	
Pacific.....	8,958	8,068	9,034	15,585	19,982	1,908	1,757	3,116	4,478	
Pollock, Atlantic.....	39,931	39,536	43,477	54,489	45,645	6,439	6,978	14,044	17,916	
Pollock, Alaska.....	50,716	24,016	92,833	130,424	552,048	2,155	5,409	7,167	45,849	
Rockfish.....	97,315	86,569	82,109	92,029	117,881	21,813	23,107	28,285	38,153	
Sablefish.....	57,068	50,031	63,380	84,868	102,698	17,526	28,692	45,879	58,107	
Salmon.....	684,718	691,408	726,946	656,521	682,018	691,462	439,795	493,937	596,376	
Scup or porgy.....	18,346	18,505	15,996	16,181	14,295	8,775	9,338	9,478	9,810	
Sea trout, gray.....	18,705	19,726	16,400	20,602	17,927	7,541	7,330	7,086	7,499	
Shark, Dogfish.....	12,523	6,071	11,563	11,114	14,167	549	842	984	1,573	
Shapper, red.....	6,705	5,745	5,181	4,489	3,732	10,107	10,681	8,820	8,661	
Swordfish.....	11,312	12,831	12,258	9,671	9,761	37,063	33,191	30,508	34,974	
Tuna.....	186,359	211,830	83,054	87,811	100,058	118,352	52,515	54,575	95,803	
Whiting.....	40,738	46,214	44,645	39,924	34,673	6,867	8,274	8,312	11,584	
Shellfish, total	(X)	981,569	1,043,279	1,159,871	1,187,511	1,161,850	1,132,810	1,443,689	1,485,672	
Clams.....	130,515	132,921	150,551	145,393	134,357	116,491	128,349	134,910	132,861	
Crabs.....	334,568	312,853	337,632	365,660	386,368	186,576	203,044	270,198	321,875	
Lobsters, American.....	43,965	43,967	46,152	46,053	45,558	114,348	114,895	120,556	133,564	
Oysters.....	47,498	48,287	44,173	40,544	39,807	80,817	70,063	78,068	92,423	
Scallops: Calico.....	14,815	39,330	12,513	1,616	8,155	21,620	12,524	9,087	8,889	
Sea.....	19,210	18,427	15,829	19,892	32,038	97,675	74,562	97,416	132,263	
Shrimp.....	296,330	301,754	333,691	400,185	363,142	488,400	472,860	622,744	578,084	
Squid: Atlantic.....	28,303	30,948	7,157	33,145	38,883	26,586	7,256	10,279	12,493	
Pacific.....	21,419	2,218	22,276	42,282	43,168	514	4,047	4,388	4,300	

X Not applicable. * Includes other types of fish and shellfish, not shown separately.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

Domestic Catch Disposition—Joint Venture Catches—Catch and Value 667

No. 1164. FISHERIES—DISPOSITION OF DOMESTIC CATCH: 1970 TO 1987

[Live weight catch in millions of pounds. 1978–1987 preliminary. In addition to whole fish, a large portion of waste (400–500 million lb.) derived from canning, filleting, and dressing fish and shellfish is utilized in production of fish meal and oil in each year shown. See *Historical Statistics, Colonial Times to 1970*, series L 305–310, for similar but not entirely comparable data]

DISPOSITION	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total.....	4,917	4,877	6,028	6,267	6,482	5,977	6,367	6,439	6,438	6,258	6,031	6,896
Fresh and frozen.....	1,595	1,744	2,237	2,394	2,621	2,547	2,550	2,304	2,336	2,242	2,487	3,026
Canned.....	1,150	907	1,098	1,046	1,161	1,118	891	1,087	1,128	1,232	1,134	1,171
Cured.....	71	56	52	94	96	90	85	80	82	70	60	58
Reduced to meal, oil, etc.....	2,101	2,171	2,640	2,733	2,604	2,222	2,841	2,968	2,892	2,714	2,350	2,641

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

No. 1165. JOINT VENTURE CATCHES IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ) BY SPECIES: 1984 TO 1987

[Joint venture—An operation authorized under the Magnuson Fishery Conservation and Management Act (MFCMA) in which a permitted foreign vessel receives fish in the U.S. Exclusive Economic Zone (EEZ) from a U.S. vessel. The fish received from the U.S. vessel are part of the U.S. harvest]

SPECIES	QUANTITY (1,000 lb.)				VALUE (\$1,000)			
	1984	1985	1986	1987	1984	1985	1986	1987
	Total.....	1,465,084	2,008,889	2,888,879	3,520,501	79,042	104,320	154,899	213,796
Alewives.....	20	—	(D)	48	1	—	(D)	(z)
Atka mackerel.....	80,453	88,047	70,627	66,206	5,632	6,109	4,928	4,775
Cod.....	84,904	80,189	145,537	131,220	8,546	7,799	14,449	15,334
Flounders.....	119,889	396,084	475,924	494,381	7,605	24,833	25,647	33,272
Hake, Pacific.....	(D)	(D)	179,981	467,363	(D)	(D)	8,736	23,306
Ocean perch.....	5,099	619	602	1,226	689	56	72	173
Mackerel, Atlantic.....	3,138	8,350	(D)	17,663	220	584	(D)	1,058
Pollock, Alaska.....	978,406	1,354,366	1,993,203	2,330,956	41,591	59,730	95,294	134,302
Rockfishes.....	763	154	474	705	105	14	57	100
Sablefish.....	1,920	207	956	271	396	30	137	37
Whiting.....	(D)	—	144	11	(D)	—	9	(z)
Squid.....	14,925	7,987	(D)	8,112	2,395	1,194	(D)	1,373
Other.....	174,587	72,864	21,531	1,399	11,862	3,971	2,470	66

— Represents zero. D Figure withheld to avoid disclosure. Z Less than \$500.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

No. 1166. U.S. CATCH AND VALUE OF FISH AND SHELLFISH, BY DISTANCE CAUGHT OFF U.S. SHORES—SELECTED SPECIES: 1987

[Preliminary. Catch is shown in live weight, except as indicated. Includes landings by U.S. flag vessels at Puerto Rico and other ports outside the 50 States and joint venture catches; see table 1165]

SPECIES	Total U.S. catch (mil. lb.)	BY DISTANCE FROM U.S. SHORES						Value of U.S. catch ¹ (mil. dol.)	PERCENT OF TOTAL VALUE, BY DISTANCE CAUGHT OFF U.S. SHORES			
		Catch (mil. lb.)			Percent of U.S. catch				3 miles or less ¹	3 to 200 miles	International waters ²	
		3 miles or less ¹	3 to 200 miles	International waters ²	3 miles or less ¹	3 to 200 miles	International waters ²		3 miles or less ¹	3 to 200 miles	International waters ²	
Total.....	10,986	4,060	6,322	604	37.0	57.5	5.5	3,569	46.3	46.0	7.7	
Fish ³	9,783	3,431	5,748	604	35.1	58.7	6.2	2,070	43.3	43.4	13.3	
Cod.....	361	27	334	(z)	7.5	92.5	(z)	91	6.6	93.4	(z)	
Flounder.....	694	61	626	7	8.8	90.2	1.0	178	14.0	83.2	2.8	
Halibut.....	76	27	49	(z)	35.7	64.3	(z)	88	34.9	65.1	(z)	
Herring, sea.....	207	165	42	—	79.8	20.2	—	52	96.2	3.8	—	
Mackerel.....	133	4	129	—	3.1	96.9	—	16	11.1	88.9	—	
Menahaden.....	2,712	2,085	627	—	76.9	23.1	—	104	79.2	20.8	—	
Pollock.....	2,929	83	2,846	(z)	2.8	97.2	(z)	198	3.6	96.4	(z)	
Salmon, Pacific.....	562	545	17	—	97.0	3.0	—	596	83.9	6.1	—	
Tuna.....	626	1	32	593	.1	5.2	94.7	321	.2	18.3	81.5	
Shellfish ³	1,203	629	574	(z)	52.3	47.7	(z)	1,499	50.4	49.6	(z)	
Clams (meats).....	134	37	97	—	27.2	72.8	—	133	72.0	28.0	—	
Crabs.....	396	235	151	(z)	60.8	39.2	(z)	322	38.3	61.7	(z)	
Lobsters.....	51	39	12	(z)	77.0	22.9	.1	155	72.9	26.9	.2	
Scallops (meats).....	41	2	39	—	4.9	95.1	—	144	6.3	93.7	—	
Shrimp.....	363	175	188	—	48.2	51.8	—	578	45.8	54.2	—	
Squid.....	91	7	84	—	7.4	92.6	—	18	14.2	85.8	—	

— Represents zero. Z Less than 500,000 pounds or .05 percent. ¹ Includes all landings in Great Lakes and other inland waters. ² Greater than 200 nautical miles seaward from the U.S. shores except for 2 States. The boundaries for the Gulf Coast of Florida and Texas are 9 nautical miles. ³ Includes other species not shown separately.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual and *Fisheries of the United States*, annual.

Forests and Fisheries

NO. 1167. U.S. PRIVATE AQUACULTURE—PRODUCTION AND VALUE: 1980 TO 1986

[Production is shown in live weight, except as indicated. Aquaculture is the commercial growing of fish or other aquatic life in a controlled environment]

SPECIES	PRODUCTION (1,000 lbs.)					VALUE (\$1,000)				
	1980	1983	1984	1985	1986	1980	1983	1984	1985	1986
Total.....	203,178	404,340	455,733	535,784	619,959	191,977	314,674	398,168	422,736	496,329
Baitfish ¹	22,046	22,046	23,598	24,807	25,247	44,000	44,000	47,045	51,280	51,522
Catfish.....	76,842	220,000	239,800	271,357	326,979	53,572	132,000	191,840	189,184	228,866
Clams ²	561	1,689	1,698	1,588	2,506	2,295	9,500	4,178	4,717	8,307
Crawfish.....	23,917	60,000	59,400	64,999	97,500	12,951	30,000	29,700	32,500	48,750
Freshwater prawns.....	300	275	317	267	178	1,200	1,500	1,698	1,540	893
Mussels ²	(NA)	775	917	928	1,208	(NA)	1,500	1,584	1,248	1,725
Oysters ²	23,755	23,300	24,549	22,473	24,090	37,085	31,500	36,970	39,977	42,797
Pacific salmon.....	7,618	20,600	45,086	48,305	74,398	3,400	6,800	17,252	25,439	32,751
Shrimp.....	255	528	440	1,354	—	—	874	1,566	1,687	3,408
TROUT.....	48,141	48,400	49,840	50,800	51,000	37,474	50,000	54,435	55,154	55,590
Other species.....	(NA)	7,000	9,900	14,000	15,500	(NA)	7,000	9,900	20,000	21,700

- Represents zero. NA Not available. ¹ Not used for food consumption. ² Production is shown in meat weight.

Source: U.S. Dept. of Agriculture, Office of Aquaculture, *Agricultural Outlook*, June 1986.

NO. 1168. SUPPLY OF SELECTED FISHERY ITEMS: 1978 TO 1987

[In millions of pounds. Totals for U.S. consumption are supply minus exports plus imports. Round weight is the complete or full weight as caught. Data are preliminary]

ITEM	unit	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Sardines, canned.....	Canned weight.....	73	78	69	84	67	46	58	76	68	77
Salmon, canned.....	Canned weight.....	116	98	126	151	71	127	150	113	87	83
Tuna, canned.....	Canned weight.....	757	674	666	698	626	713	777	759	873	866
Clams.....	Meat weight.....	94	99	102	130	119	126	144	164	162	152
King crab.....	Round weight.....	75	86	133	60	28	23	13	11	19	14
Snow crab.....	Round weight.....	66	44	54	43	25	30	23	45	49	29
Crab meat, canned.....	Canned weight.....	7	7	9	7	7	8	7	8	9	8
American lobster.....	Round weight.....	62	68	69	78	81	93	100	108	113	115
Spiny lobster.....	Round weight.....	149	157	127	134	127	137	153	154	152	151
Oysters.....	Meat weight.....	85	75	71	76	82	81	84	90	91	92
Scallops.....	Meat weight.....	62	59	51	72	55	67	87	72	70	81
Shrimp.....	Heads-off weight.....	431	424	425	434	458	541	584	633	706	773

NO. 1169. CANNED, FRESH AND FROZEN FISHERY PRODUCTS—PRODUCTION AND VALUE:
1975 TO 1987

[Fresh fishery products exclude Alaska and Hawaii. Canned fishery products data are for natural pack only. See also *Historical Statistics, Colonial Times to 1970*, series L 335-3357 (production data in cases) and L 358]

PRODUCT	PRODUCTION (mil. lb.)						VALUE (mil. dol.)					
	1975	1980	1984	1985	1986	1987 ¹	1975	1980	1984	1985	1986	1987 ¹
CANNED												
Total ²	1,382	1,516	1,411	1,161	1,332	1,171	1,067	1,928	1,578	1,380	1,495	1,511
Tuna.....	529	602	614	545	637	654	653	1,144	872	821	882	1,018
Salmon.....	78	200	159	142	112	110	110	376	322	228	265	221
Clam products.....	76	77	114	117	116	122	42	66	95	108	118	88
Mackerel ¹	10	38	31	17	17	(NA)	3	12	13	7	6	(NA)
Sardines, Maine.....	26	20	15	20	18	13	25	32	25	38	28	22
Shrimp.....	12	16	7	4	5	4	28	80	36	19	23	23
Crabs.....	3	5	1	1	1	(Z)	10	19	5	2	(Z)	(Z)
Squid.....	8	4	(NA)	4	(NA)	3	2	1	(NA)	1	(NA)	(NA)
Oysters ⁴	2	(Z)	6	2	3	3	4	(Z)	5	2	4	4
FRESH AND FROZEN												
Fish fillets and steaks ⁵	132	202	252	246	280	277	138	261	410	440	564	595
Cod.....	15	31	70	57	77	61	15	43	97	89	142	152
Flounder.....	42	49	78	89	64	56	53	87	159	157	169	165
Haddock.....	8	17	9	8	8	9	12	29	19	18	25	32
Ocean perch, Atlantic.....	8	7	3	2	3	3	6	9	3	3	6	6
Rockfish.....	6	14	18	18	17	16	3	13	28	25	24	24
Pollack, Atlantic.....	6	9	11	15	16	19	4	9	11	17	21	30
Pollack, Alaska.....	(NA)	(NA)	4	11	24	65	(NA)	(NA)	4	24	25	69
Other.....	47	74	59	68	71	49	45	71	95	106	152	116
Frozen fishery products.....	300	228	188	205	192	154	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. Z Less than 500,000 pounds or \$500,000. ¹ Preliminary. ² Includes other products, not shown separately. ³ Includes Jack and a small amount of Pacific mackerel. ⁴ Includes oyster specialties. ⁵ Fresh and frozen.

Source of tables 1168 and 1169: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

No. 1170. PROCESSED FISHERY PRODUCTS—PRODUCTION AND VALUE: 1980 TO 1987

[Includes Puerto Rico and American Samoa. See *Historical Statistics, Colonial Times to 1970*, series L 362-365, for meal, scrap, and oil.]

PRODUCT	PRODUCTION (mil. lb.)						VALUE (mil. dol.)					
	1980	1983	1984	1985	1986	1987 ¹	1980	1983	1984	1985	1986	1987 ¹
Total ²	(x)	(x)	(x)	(x)	(x)	(x)	4,456	5,071	5,211	4,936	5,263	5,500
Fresh and frozen ³	(x)	(x)	(x)	(x)	(x)	(x)	2,110	3,124	3,234	3,242	3,481	3,665
Fillets	197	217	241	232	266	271	247	327	384	408	527	577
Steaks	5	13	11	13	14	6	14	35	27	32	37	18
Fish sticks	88	87	92	96	87	99	89	116	110	111	94	143
Fish portions	344	335	333	330	342	316	308	411	414	368	394	429
Breaded shrimp	83	100	95	95	108	100	254	386	369	355	358	369
Canned products ⁴	1,516	1,391	1,411	1,161	1,332	1,171	1,928	1,524	1,577	1,380	1,495	1,511
Fish and shellfish	1,009	987	1,042	913	1,011	967	1,782	1,394	1,436	1,289	1,395	1,434
Animal food	507	404	369	248	321	204	146	140	141	91	100	77
Industrial products	(x)	(x)	(x)	(x)	(x)	(x)	270	252	234	182	175	209
Meat and scrap	724	764	752	722	702	787	134	130	113	84	83	121
Oil (body and liver)	312	399	373	285	337	298	58	67	61	42	44	36
Solubles	267	317	252	323	195	238	14	16	15	19	12	16
Other	(x)	(x)	(x)	(x)	(x)	(x)	64	39	45	37	36	36

X. Not applicable. ¹ Preliminary. ² Includes cured fish. ³ Includes items not shown (dressed fish, shellfish not breaded, specialties). ⁴ Includes salmon eggs for bait.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

No. 1171. FISHERY PRODUCTS—IMPORTS AND EXPORTS: 1970 TO 1987

[Imports include landings of tuna by foreign vessels at American Samoa. See also *Historical Statistics, Colonial Times to 1970*, series L 227-235]

YEAR	IMPORTS			EXPORTS			
	Total value (mil. dol.)	Edible products		Non-edible, value (mil. dol.)	Total value (mil. dol.)	Edible products	
		Quantity (mil. lb.)	Value (mil. dol.)			Quantity (mil. lb.)	Value (mil. dol.)
1970	1,037	1,873	813	225	118	140	94
1975	1,637	1,913	1,367	270	305	218	267
1980	3,648	2,145	2,687	962	1,006	574	904
1984	5,883	2,454	3,742	2,141	949	574	842
1985	6,679	2,754	4,064	2,614	1,084	648	1,010
1986	7,626	2,979	4,813	2,813	1,356	795	1,290
1987, prel.	8,817	3,201	5,711	3,106	1,160	1,783	1,577

¹ Record.

No. 1172. SELECTED FISHERY PRODUCTS—IMPORTS AND EXPORTS: 1983 TO 1987

[See *Historical Statistics, Colonial Times to 1970*, series L 312-316, for selected imports]

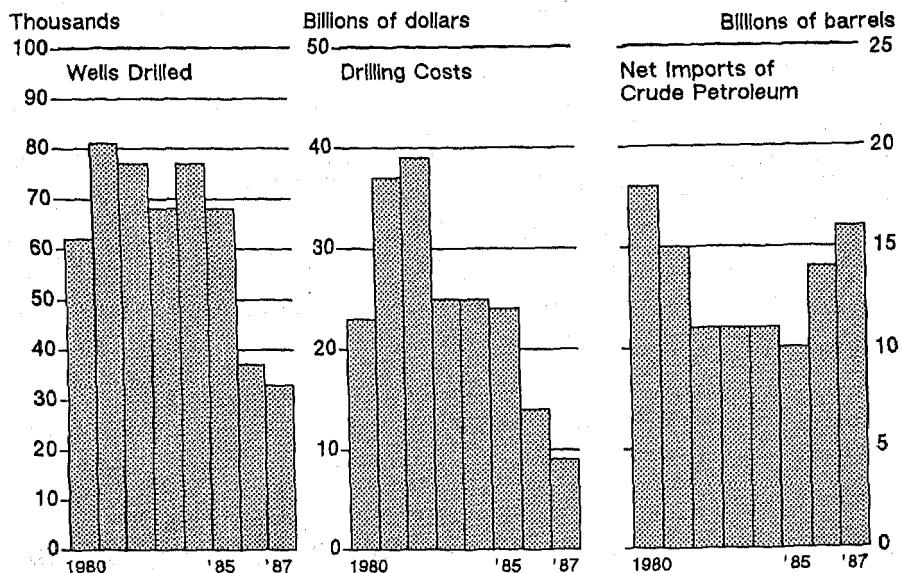
PRODUCT	QUANTITY (mil. lb.)					VALUE (mil. dol.)				
	1983	1984	1985	1986	1987, prel.	1983	1984	1985	1986	1987, prel.
IMPORTS										
Edible ¹	2,386.8	2,454.3	2,754.0	2,978.9	3,201.1	3,626.7	3,742.3	4,064.3	4,813.5	5,711.2
Fresh or frozen	2,051.6	2,057.1	2,229.0	2,423.7	2,661.6	3,211.9	3,281.5	3,461.6	4,150.0	5,021.9
Salmon ²	14.4	21.1	27.0	40.5	41.9	33.4	58.6	75.6	100.7	113.0
Tuna ³	505.2	404.2	478.8	563.8	572.5	240.0	215.9	266.3	298.8	330.8
Groundfish fillets, blocks ⁴	682.6	624.0	639.8	651.0	719.0	708.0	631.1	655.3	790.6	1,109.4
Other fillets and steaks	141.5	165.7	231.0	251.4	305.6	188.0	238.3	337.7	416.1	545.1
Scallops (meats)	34.3	27.3	42.0	47.9	39.8	158.7	117.3	147.1	192.6	162.3
Lobster, American and spiny	63.8	73.4	77.4	79.3	80.9	364.0	435.7	464.9	464.9	575.8
Shrimp and prawn	328.3	328.9	342.8	384.3	461.2	1,198.0	1,189.9	1,120.7	1,404.9	1,676.8
Sardines, in oil	17.2	17.5	23.0	22.9	27.4	21.2	23.4	27.0	28.5	35.1
Sardines and herring ⁵	23.7	31.5	39.8	36.0	43.3	21.5	24.8	30.3	30.4	34.2
Tuna	122.3	162.3	213.9	236.6	211.7	137.3	167.3	209.1	226.6	206.9
Oysters	21.6	23.0	28.9	32.1	32.7	24.8	26.2	30.2	32.3	36.1
Pickled or salted	60.9	61.1	57.1	61.4	57.4	56.1	55.5	53.4	62.2	74.6
Cod, haddock, hake, pollock, cusk	37.7	38.0	34.7	36.9	31.9	42.9	42.3	41.2	49.5	60.5
Nonedible scrap and meal	135.9	166.9	510.7	370.0	393.7	21.8	26.5	61.7	47.2	52.5
EXPORTS										
Canned salmon	54.5	49.0	48.2	59.4	35.9	97.0	86.8	83.1	101.2	85.8
Fish oil, nonedible	404.1	399.4	279.1	192.2	249.1	59.8	71.0	36.8	20.8	23.3

X. Not applicable. ¹ Includes products not shown separately. ² Excludes fillets. ³ Includes landings of tuna by foreign vessels at American Samoa. ⁴ Includes cod, cusk, haddock, hake, pollock, Atlantic ocean perch, and whiting. ⁵ Not in oil.

Source of tables 1171 and 1172: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual. Compiled from U.S. Bureau of the Census data.

Figure 25.1

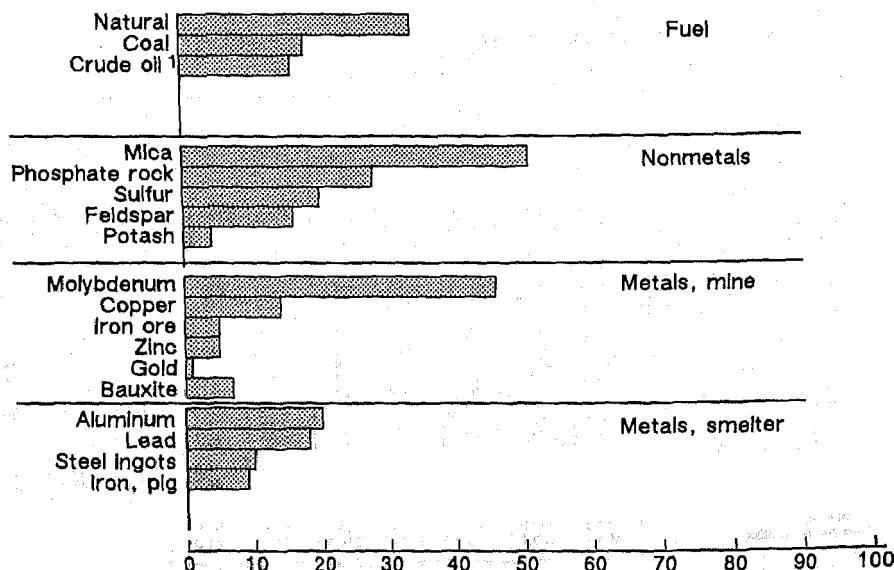
**Crude Petroleum and Natural Gas—Wells Drilled,
Drilling Cost and Imports: 1980 to 1987**



Source: Chart prepared by U.S. Bureau of the Census. For data see table 1188 and 1190.

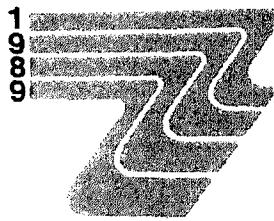
Figure 25.2

U.S. Mineral Production as Percent of World: 1986



¹ Includes natural gas liquids.

Source: Chart prepared by U.S. Bureau of the Census. For data see table 1182.



Section 25

Mining and Mineral Products

This section presents data relating to mineral industries and their products, general summary measures of production and employment, and more detailed data on production, prices, imports and exports, consumption, and distribution for specific industries and products. Data on mining and mineral products may also be found in sections 27 and 31 of this *Abstract*; data on mining employment may be found in section 13.

"Mining" comprises the extraction of minerals occurring naturally (coal, ores, crude petroleum, natural gas) and quarrying, well operation, milling, refining and processing and other preparation customarily done at the mine or well site or as a part of extraction activity. (Mineral preparation plants are usually operated together with mines or quarries.) Exploration for minerals is included as is the development of mineral properties.

The principal governmental sources of these data are the three-volume *Minerals Yearbook*, published by the Bureau of Mines, Department of the Interior, and various monthly and annual publications of the Energy Information Administration, Department of Energy. See text, section 19 for list of Department of Energy publications. In addition, the Bureau of the Census conducts a census of mineral industries every 5 years. Non-government sources include the *Annual Statistical Report of the American Iron and Steel Institute*, Washington, DC; *Metals Week* and the monthly *Engineering and Mining Journal*, issued by the McGraw-Hill Publishing Co., New York, NY; *The Iron Age*, issued weekly by the Chilton Co., Philadelphia, PA; and the *Joint Association Survey of the U.S. Oil and Gas Industry*, conducted jointly by the American Petroleum Institute, Independent Petroleum Association of America, and Mid-Continent Oil and Gas Association.

Mineral statistics, with principal emphasis on commodity detail, have been collected by the Geological Survey or by the Bureau of Mines since 1880. Current data in Bureau of Mines publications include quantity and value of nonfuel minerals produced, sold or used by producers, or shipped; quantity of minerals stocked; crude materials treated and prepared minerals recovered; and consumption of mineral raw materials. The U.S. Mine Safety and Health Administration also collects and publishes data on workhours, employment, accidents, and injuries in the mineral industries, except petroleum and natural gas. In October 1977, mineral fuel data collection activities of the Bureau of Mines were transferred to the Energy Information Administration.

Censuses of mineral industries have been conducted by the Bureau of the Census at various intervals since 1840. Beginning with the 1967 census, legislation provides for a census to be conducted every fifth year for years ending in "2" and "7." The censuses provide, for the various types of mineral establishments, information on operating costs, capital expenditures, labor, equipment, and energy requirements in relation to their value of shipments and other receipts. Commodity statistics on many manufactured mineral products are also collected by the Bureau at monthly, quarterly, or annual intervals and issued in its *Current Industrial Reports* series.

In general, figures shown in the individual commodity tables include data for outlying areas, and may therefore not agree with summary table 1177. Except for crude petroleum and refined products, the export and import figures include foreign trade passing through the customs districts of United States and Puerto Rico, but exclude shipments between U.S. territories and the customs districts.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

Mining and Mineral Products

No. 1173. SUMMARY OF MINERAL OPERATIONS: 1958 TO 1982

[Represents mineral operations only. Beginning 1967, excludes single unit establishments without paid employees. See also *Historical Statistics, Colonial Times to 1970*, series M 1-11.]

ITEM	UNIT	1958	1963	1967	1972	1977	1982
Establishments ¹	Number.....	36,392	38,651	28,579	25,269	31,359	73,005
With 20 or more employees ¹	Number.....	6,045	5,499	5,682	5,912	6,632	10,272
Including all operations in manufactures ¹	Number.....	37,966	40,532	29,688	26,178	31,967	73,348
Excluding oil and gas extraction.....	Number.....	19,444	19,290	13,330	11,680	13,520	12,838
Employees, total	1,000.....	734	616	567	595	799	1,114
Production workers ²	1,000.....	565	482	433	443	583	762
All other.....	1,000.....	169	134	134	152	208	352
Worker-hours, production workers ²	Million.....	1,081	973	892	909	1,183	1,678
Workerhours per production workers.....	1,000.....	1.9	2.0	2.1	2.1	2.0	2.1
Payroll, total.....	Mil. dol.	3,749	3,743	4,187	6,228	13,167	28,637
Wages, production workers ²	Mil. dol.	2,623	2,680	2,888	4,250	9,082	18,030
Salaries, all other employees.....	Mil. dol.	1,126	1,063	1,299	1,976	4,085	10,607
Cost of supplies, etc. ³	Mil. dol.	7,521	8,974	10,576	14,884	46,079	109,697
Value added in mining.....	Mil. dol.	13,385	15,910	19,330	26,471	68,013	188,056
Metal mining.....	Mil. dol.	1,180	1,418	1,557	2,382	3,804	3,215
Coal mining.....	Mil. dol.	1,780	1,727	2,091	3,754	11,286	16,631
Oil and gas extraction.....	Mil. dol.	9,033	11,020	13,394	17,612	48,587	159,937
Nonmetallic minerals mining.....	Mil. dol.	1,392	1,745	2,288	2,723	4,856	6,273
Value of shipments and receipts ⁴	Mil. dol.	16,373	18,804	22,784	36,319	96,375	250,000
Capital expenditures.....	Mil. dol.	2,804	3,264	4,058	5,036	17,718	47,753

¹ Data for 1982 are not comparable to prior years.

² See footnote 5, table 1176.

³ Includes purchased machinery installed.

⁴ See footnote 7, table 1176.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1972, 1977 and 1982*.

No. 1174. GROSS NATIONAL PRODUCT IN MINING: 1970 TO 1987

[In billions of dollars, except percent. For definition of gross national product, see text, section 14. Based on 1972 Standard Industrial Classification]

MINING INDUSTRY	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Current dollars, total.....	18.7	41.3	50.2	56.5	72.7	107.3	143.7	132.1	118.4	119.4	114.2	82.1	85.4
Percent of total gross national product.....	1.8	2.6	2.5	2.5	2.9	3.9	4.7	4.2	3.5	3.2	2.8	1.9	1.9
Metal mining.....	1.5	1.6	1.9	2.2	3.3	3.8	3.9	2.3	2.5	2.2	1.8	2.1	2.2
Coal mining.....	3.0	9.1	9.6	10.2	11.4	12.9	13.8	15.1	14.3	14.6	13.9	13.2	12.7
Oil and gas extraction.....	12.2	27.4	34.9	39.6	53.1	84.9	120.8	110.2	96.4	96.4	92.4	60.3	65.0
Nonmetallic minerals, exc. fuels.....	1.9	3.2	3.8	4.4	4.8	5.6	5.2	4.5	5.1	6.2	6.1	6.5	5.5
Constant (1982) dollars, total.....	134.5	125.6	126.2	128.8	130.0	135.6	139.8	132.1	125.4	133.0	130.1	115.7	117.6
Metal mining.....	4.0	3.5	3.4	3.4	3.6	3.5	3.8	2.3	2.2	2.5	2.4	2.4	2.7
Coal mining.....	11.2	11.9	12.6	12.1	14.1	14.9	14.8	15.1	14.3	16.1	16.0	16.0	16.6
Oil and gas extraction.....	115.2	105.7	105.3	108.0	106.9	111.7	115.5	110.2	104.1	108.9	106.2	91.9	92.7
Nonmetallic minerals, exc. fuels.....	4.2	4.5	4.9	5.3	5.4	5.5	5.6	4.5	4.9	5.4	5.6	5.3	5.5

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

No. 1175. MINING AND PRIMARY METAL PRODUCTION INDEXES: 1970 TO 1987

[1977=100. See also *Historical Statistics, Colonial Times to 1970*, series M 68-71]

INDUSTRY GROUP	1970	1975	1976	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Mining.....	98.8	96.6	97.4	103.6	106.4	112.4	117.5	109.3	102.9	111.1	108.8	100.4	100.7
Coal.....	88.2	93.8	97.7	98.0	111.6	118.4	117.8	118.9	113.3	128.1	125.8	127.7	131.8
Anthracite.....	185.5	105.7	105.4	85.8	82.0	102.5	92.2	78.0	70.0	70.6	66.6	65.9	66.0
Bituminous.....	87.1	93.7	97.6	98.1	112.0	118.6	118.0	120.3	113.8	128.7	127.4	128.4	132.5
Oil and gas extraction.....	100.2	97.3	95.6	104.5	104.2	111.5	117.8	110.9	102.8	109.1	106.2	93.9	92.7
Crude oil and natural gas.....	115.9	101.9	99.4	102.8	101.8	103.2	102.3	100.1	96.8	99.9	99.5	96.9	94.6
Oil and gas drilling.....	48.7	82.0	82.4	117.6	119.5	164.1	214.1	178.8	139.9	165.5	147.5	76.2	79.1
Metal mining.....	127.3	104.6	114.0	107.3	113.4	103.8	113.2	71.4	65.2	77.0	75.0	74.2	77.8
Iron ore.....	162.8	144.1	143.5	146.5	154.5	125.4	134.8	66.4	68.8	92.1	87.7	70.8	83.0
Nonferrous ores.....	116.3	92.5	105.0	90.6	95.8	94.6	104.0	73.5	63.7	70.6	69.6	75.6	75.1
Copper ore.....	112.9	92.9	105.8	98.5	104.8	85.2	110.9	82.6	75.9	78.8	79.4	83.4	92.1
Lead and zinc ores.....	105.7	104.4	103.6	88.0	83.4	91.7	78.6	86.2	75.9	60.3	66.0	56.8	55.0
Primary metals, manufacturing.....	94.8	88.2	98.7	107.0	108.5	90.4	95.0	85.8	73.0	82.3	80.5	75.1	81.3
Nonferrous metals.....	82.9	81.0	93.5	108.1	109.6	98.3	99.7	81.4	86.2	99.3	99.7	97.2	101.6
Copper.....	126.7	95.7	107.8	106.5	114.5	88.6	106.4	77.3	80.1	90.2	92.1	91.9	93.0
Aluminum.....	87.6	85.5	93.4	105.8	117.6	112.7	109.1	79.6	81.4	99.3	84.9	73.8	81.2
Iron and steel.....	102.1	92.0	101.4	107.5	108.0	86.3	92.5	57.5	66.1	73.4	70.4	63.4	70.6

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 1176. MINERAL INDUSTRIES—SUMMARY: 1972 TO 1982

["N.e.c." means not elsewhere classified. See also *Historical Statistics, Colonial Times to 1970*, series M1-12]

MINERAL INDUSTRY	1972			1977			1982		
	Establishments	Establishments		All employees	Establishments ⁴		All employees	Production workers ⁵	
		Total	With 20 or more employees		Total	With 20 or more employees		Number (1,000)	Payroll ¹ (mill. dol.)
All Industries.....	25,269	6,226	26,471	31,359	6,632	799	13,167	68,013	73,005
Metal mining.....									
Iron ores.....	1,014	853	2,382	1,206	328	88	1,485	3,504	1,515
Copper ores.....	111	387	218	702	97	61	372	1,046	78
Lead and zinc ores.....	101	1025	133	61	33	54	1,057	81	105
Gold and silver ores.....	132	30	61	175	7	105	1,015	329	71
Gold ores and placers.....	81	10	14	47	126	8	3	40	71
Silver ores.....	51	4	14	49	12	2	32	83	85
Bauxite.....	10	4	12	12	6	(2)	7	21	3
Ferro-manganese ores, except vanadium.....	44	40	137	56	17	6	107	256	68
Metal mining services.....	112	31	54	270	42	3	52	152	16
Miscellaneous metal ores.....	253	71	180	375	80	14	227	502	443
Anthracite mining.....	230	35	35	156	43	4	123	87	12
Anthracite mining services.....	213	32	63	156	38	3	116	152	41
Bituminous coal, lignite mining.....	17	3	5	272	5	(2)	4	112	40
Bituminous coal and lignite.....	3,365	1,742	3,685	5,275	1,690	4,120	11,143	5,005	4,856
Coal mining services, n.e.c.....	3,191	1,714	3,626	4,944	1,610	4,005	10,837	4,513	1,767
Oil and gas extraction.....	14,488	7,608	14,422	8,573	3,128	3,902	48,587	80,511	6,814
Crude petroleum and natural gas.....	680	1,075	1,422	8,573	981	140	2,738	38,327	27,538
Natural gas liquids.....	6,209	1,033	1,019	692	209	13	227	3,926	793
Oil and gas field services.....	6,209	1,033	1,072	1,838	196	222	3,336	6,974	3,584
Drilling oil and gas wells.....	422	422	881	8,625	79	1,317	3,307	10,123	1,810
Oil and gas exploration services.....	7,175	89	212	1,252	116	18	545	4,122	1,990
Oil and gas field services, n.e.c.....	5,587	522	520	982	99	1,399	3,122	7,809	2,385
Nonmetallic minerals mining.....	6,182	1,070	2,079	5,305	1,443	1,177	1,869	4,656	5,801
Dimension stone.....	198	107	13	2,625	2,625	23	2	1,235	1,235
Crushed and broken stone ⁹	1,937	388	982	2,055	655	41	19	1,932	1,54
Sand and gravel ⁹	2,938	322	776	2,807	103	31	418	1,017	2,755
Clay and related minerals ⁹	309	75	198	265	103	10	136	358	224
Chemical and fertilizer minerals.....	204	203	583	205	112	24	372	1,423	196
Miscellaneous mineral services.....	126	111	176	548	87	7	36	222	18
	459	55	138	548	87	7	236	315	72

² Less than 500 or 500,000.³ Excludes proprietors' and firm members' of unincorporated concerns.⁴ Not comparable to prior years for contract work and purchased machinery from the value of shipments and capital expenditures.⁵ Represents employees up through the working foremen level engaged in manual work. Includes actual overtime hours (not straight-time equivalent).⁶ Represents value of shipments of primary and secondary products of the industry, and amount received for services performed on a contract, fee, or other basis.⁷ Excludes data for dimension stone quarries operated in conjunction with dressing plants.⁸ Excludes data for mining included in establishments classified in manufacturing industries.⁹ Excludes data for mining included in establishments classified in manufacturing industries.Source: U.S. Bureau of the Census, *Census of Mineral Industries: 1972, 1977, and 1982*, final industry series reports.

Mining and Mineral Products

NO. 1177. MINERAL PRODUCTION AND VALUE, 1970 TO 1986,

[Data represent production as measured by mine shipments, mine sales, or marketable production]

	MINERAL	PRODUCTION QUANTITY						
		Unit	1970	1980	1982	1983	1984	1985
1	Total mineral production	(x).....	(x)	(x)	(x)	(x)	(x)	(x)
2	Mineral fuels		(x)	(x)	(x)	(x)	(x)	(x)
3	Coal: Bituminous and lignite	Mil. sh. ton.	603	824	824	778	892	879
4	Pennsylvania anthracite	Mil. sh. ton.	10	6	5	4	4	5
5	Natural gas (wet)	Tril. cu. ft.	21.92	20.18	18.52	16.82	18.23	17.20
6	Petroleum (crude)	Mil. bbl. ¹	3,517	3,146	3,157	3,171	3,250	3,274
7	Uranium ²	Mil. lb.	23.1	43.7	26.9	21.2	14.9	11.3
8	Industrial minerals	(x).....	(x)	(x)	(x)	(x)	(x)	(x)
9	Abrasive stone ³	Sh. ton.	3,055	681	1,285	1,101	1,290	1,157
10	Asbestos	1,000 sh. ton.	125	88	70	77	63	57
11	Asphalt and related bitumens (native) ⁴	1,000 sh. ton.	1,981	1,252	(D)	(D)	(D)	(D)
12	Barite	1,000 sh. ton.	854	2,245	1,845	754	775	739
13	Boron minerals	1,000 sh. ton.	1,041	1,545	1,234	1,303	1,387	1,269
14	Bromine	Mil. lb.	350	378	401	370	385	320
15	Calcium chloride	1,000 sh. ton.	633	581	617	(D)	638	(D)
16	Carbon dioxide, natural (estimate)	Mil. cu. ft.	1,110	1,628	2,088	—	—	—
17	Cement: Portland	Mil. sh. ton.	73.2	71.6	61.1	67.2	74.4	74.6
18	Masonry	Mil. sh. ton.	3.0	3.0	2.4	2.9	3.3	3.5
19	Clays	Mil. sh. ton.	54.9	48.8	35.3	40.9	43.7	45.0
20	Diatomite	1,000 sh. ton.	598	689	613	619	627	625
21	Feldspar	1,000 sh. ton.	726	710	615	710	710	735
22	Fluorspar	1,000 sh. ton.	259	93	77	61	72	66
23	Garnet (abrasive)	1,000 sh. ton.	18.8	26.9	27.3	29.8	29.6	36.7
24	Gem stones (estimate)	(x).....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
25	Gypsum	Mil. sh. ton.	9.4	12.4	10.5	12.9	14.3	14.7
26	Helium	Mil. cu. ft.	4,600	1,458	1,248	1,299	1,642	1,885
27	Lime	Mil. sh. ton.	19.7	18.0	14.1	14.9	15.9	15.7
28	Magnesium compounds ⁵	1,000 sh. ton.	708	(D)	(D)	618	(D)	(D)
29	Mica: Scrap	1,000 sh. ton.	119	116	106	140	161	138
30	Peat	1,000 sh. ton.	526	788	769	725	814	882
31	Perlite	1,000 sh. ton.	456	638	506	474	498	518
32	Phosphate rock	Mil. sh. ton.	38.7	80.0	41.2	46.8	54.2	56.0
33	Potash ⁶	1,000 sh. ton.	2,729	2,444	1,987	1,688	1,807	1,396
34	Pumice	1,000 sh. ton.	3,036	543	416	449	502	508
35	Pyrites	1,000 lg. ton.	(D)	834	665	(D)	(D)	(D)
36	Salt (common)	Mil. sh. ton.	45.9	40.4	37.9	34.6	39.2	40.1
37	Sand and gravel	Mil. sh. ton.	944	793	621	682	803	910
38	Sodium carbonate (natural)	1,000 sh. ton.	2,688	(D)	(D)	(D)	(D)	(D)
39	Sodium sulfate (natural)	1,000 sh. ton.	602	583	(D)	423	435	389
40	Stone ⁷	Mil. sh. ton.	869	982	791	863	957	1,002
41	Sulfur: Frasch mines (shipments)	1,000 lg. ton.	6,504	7,283	3,541	4,046	4,922	4,604
42	Talc, soapstone, pyrophyllite	1,000 sh. ton.	1,028	1,473	1,135	1,066	1,127	1,269
43	Tripoli	1,000 sh. ton.	68	121	113	111	124	(D)
44	Vermiculite	1,000 sh. ton.	285	337	316	282	315	314
45	Nonmetallic minerals, undistributed ¹⁰	(x).....	(x)	(x)	(x)	(x)	(x)	(x)
46	Metals	(x).....	(x)	(x)	(x)	(x)	(x)	(x)
47	Antimony ore and concentrate	Sh. ton ¹¹	1,130	343	503	838	557	(D)
48	Bauxite (dried)	1,000 lg. ton ¹²	2,082	1,534	720	668	842	663
49	Copper ²	1,000 sh. ton.	1,720	1,302	1,264	1,144	1,215	1,219
50	Gold ²	1,000 fine oz.	1,743	970	1,466	2,003	2,085	2,427
51	Iron ore, usable ¹⁴	Mil. lg. ton ¹⁵	87.2	69.6	35.8	44.3	(D)	(D)
52	Lead ²	1,000 sh. ton.	572	607	585	495	356	456
53	Manganese ore ¹⁶	1,000 sh. ton ¹⁶	388	174	32	34	88	20
54	Mercury	76 lb. flask.	27,295	30,657	25,760	25,070	19,048	16,530
55	Molybdenum ¹⁷	Mil. lb.	110	149	76	49	104	94
56	Nickel ¹⁸	1,000 sh. ton.	15.9	14.7	3.2	—	9.6	6.1
57	Silver ²	Mil. fine oz.	45.0	32.3	40.2	43.4	44.6	39.4
58	Titanium concentrate: limonite ²	1,000 sh. ton ¹⁶	921	594	233	(D)	(D)	(D)
59	Tungsten ore and concentrate	1,000 lb. ¹⁹	9,312	6,036	3,473	2,240	2,652	2,196
60	Vanadium ²	Sh. ton.	5,319	4,806	4,098	2,171	1,617	(D)
61	Zinc mine production ²	1,000 sh. ton.	534	350	334	303	279	250
62	Metals, undistributed ¹⁰	(x).....	(x)	(x)	(x)	(x)	(x)	(x)

- Represents zero. D Withheld to avoid disclosing individual company data. NA Not available. X Not applicable.
¹ 42 gal. bbl. ² Recoverable content of ores, etc. ³ Grindstones, pulpsstones, millstones, grinding pebbles, sharpening stones, and tubemill liners. ⁴ Contains bituminous limestone and sandstone, and gilsonite. ⁵ Value included in "Industrial minerals, undistributed." ⁶ 1970 and 1980, crude and refined; thereafter, refined only. ⁷ From sea water and brines, except for metals (M₂O equiv.). ⁸ K₂O equivalent; represents sales by producers. ⁹ Excludes abrasive stone, bituminous limestone and sandstone, and ground soapstone, all included elsewhere in table. Includes calcareous marl and slate.

Mineral Production and Value

675

AND PRINCIPAL PRODUCING STATES, 1986

(Including consumption by producers). See *Historical Statistics, Colonial Times to 1970*, series M 13-37 for selected values]

PRODUCTION VALUE (mil. dol.)							Principal producing States ranked by quantity, 1986	
1970	1980	1982	1983	1984	1985	1986		
28,369.7	146,750.0	179,137.9	168,868.4	179,201.0	167,904.5	(NA)	(X)	1
18,800.0	121,616.0	159,470.9	147,748.4	156,040.0	144,671.5	93,801.7	(X)	2
3,770.0	20,200.0	22,820.0	20,110.0	22,748.8	22,062.8	21,000.6	KY, WY, WV, PA, IL.	3
110.0	260.0	230.0	210.0	202.5	215.3	189.6	PA.	4
3,730.0	32,090.0	45,560.0	43,570.0	48,491.6	43,167.0	32,574.5	TX, LA, OK, NM.	5
11,190.0	67,930.0	90,030.0	83,050.0	84,110.0	78,870.7	39,631.7	TX, AK, LA, CA.	6
(NA)	1,136.0	1,030.9	608.4	485.9	355.6	405.3	NM, TX, WY.	7
5,791.2	16,213.0	14,150.0	15,263.0	17,157.0	17,812.0	(NA)	(X)	8
6	1.9	.6	.5	.6	.5	(NA)	AR, WI, OH.	9
10.7	30.6	24.9	27.8	24.2	20.5	(NA)	CA and VT.	10
8.9	25.0	(D)	(5)	(4)	(5)	(NA)	TX and UT.	11
12.8	68.0	69.5	29.2	25.4	21.5	(NA)	NV, GA, MO, MT.	12
86.8	366.8	384.6	439.2	456.7	404.8	(NA)	CA.	13
60.6	95.4	102.6	91.0	95.0	80.0	(NA)	AR and MI.	14
15.2	47.9	61.5	(4)	93.0	(4)	(NA)	MI, CA, WA.	15
2.2	2.6	3.4	-	-	-	(NA)	(X)	16
1,268.7	3,618.3	3,084.4	3,815.7	3,810.4	3,817.3	(NA)	TX, CA, PA, MI.	17
67.5	188.5	145.2	186.2	219.9	213.1	(NA)	GA, TX, NC, WY.	18
257.9	898.9	825.1	931.1	1,032.1	1,011.4	(NA)	CA, NV, WA, OR.	19
32.6	100.6	107.6	114.3	120.9	127.0	(NA)	NC, CT, GA, CA.	20
9.6	23.2	20.3	22.5	23.5	22.8	(NA)	IL, NV, TX.	21
13.9	12.6	13.3	10.0	(5)	(5)	(NA)	ID, ME, NY.	22
1.9	1.9	2.3	2.5	2.5	3.0	(NA)	(X)	23
2.4	6.9	7.2	7.4	7.5	7.4	(NA)	TX, MI, IA, OK.	24
35.1	103.1	89.1	101.4	113.7	114.2	(NA)	KS, TX, NM.	25
64.2	30.2	42.4	45.5	61.6	69.9	(NA)	OH, KY, MD, PA.	26
286.2	842.9	696.2	757.6	811.2	809.0	(NA)	(X)	27
62.4	(6)	(5)	182.5	(6)	(6)	(NA)	MI, CA, UT, TX.	28
2.5	6.3	6.4	6.5	7.1	6.3	(NA)	NC, NM, SC, GA.	29
6.0	16.2	16.9	18.7	19.9	21.9	(NA)	MI, FL, IN, IL.	30
4.9	16.5	16.0	15.7	16.6	17.2	(NA)	NM, CA, AZ, NV.	31
203.2	1,256.9	950.3	1,021.1	1,182.2	1,203.3	(NA)	FL, NC, ID, TN.	32
98.1	353.9	265.6	220.8	241.8	178.4	(NA)	NM, UT, CA.	33
4.7	4.3	3.8	4.5	4.9	4.6	(NA)	OR, NM, CA, ID.	34
(6)	13.8	41.9	(6)	(6)	(6)	(NA)	TN, CO, AZ.	35
304.8	656.2	671.4	597.1	675.1	741.8	(NA)	LA, TX, NY, OH.	36
1,115.7	2,289.0	1,997.8	2,270.2	2,621.2	2,812.1	(NA)	CA, TX, MI, AZ.	37
58.3	(5)	(5)	(5)	(5)	(5)	(NA)	WY and CA.	38
10.9	36.4	(5)	39.4	40.1	35.9	(NA)	CA, TX, UT.	39
1,474.9	3,393.5	3,056.0	3,474.8	3,910.5	4,224.7	(NA)	TX, FL, PA, GA.	40
151.8	720.5	434.7	414.2	546.1	573.6	(NA)	TX and LA.	41
7.8	25.6	20.7	20.3	23.2	29.2	(NA)	MT, TX, VT, NY.	42
.5	.7	.7	.7	.7	(5)	(NA)	IL and OK.	43
6.5	23.5	28.5	27.2	31.5	32.4	(NA)	MT, SC, VA.	44
34.4	941.2	959.3	867.5	937.9	1,007.9	(NA)	(X)	45
3,778.5	8,921.0	5,517.0	5,857.0	6,004.0	5,821.0	(NA)	(X)	46
(12)	(12)	(12)	(12)	(12)	(12)	(NA)	AR and AL.	47
30.1	22.4	12.3	11.3	15.6	12.9	10.4	(NA)	48
1,984.5	2,666.9	1,840.9	1,751.5	1,625.1	1,632.5	1,670.7	AZ, NM, MI, MT.	49
63.4	594.1	551.0	849.1	751.8	771.0	1,374.7	NV, CA, SD, MT.	50
941.7	2,543.5	1,491.7	1,938.5	(12)	(12)	(12)	MN, MI, MO.	51
178.6	515.2	288.6	214.7	181.7	174.0	165.2	MO, ID, CO, NY, MT.	52
(12)	2.4	.3	.2	.9	(D)	(D)	(SC)	53
11.1	11.9	(12)	(12)	(12)	(12)	(12)	NV.	54
190.1	1,344.2	504.1	166.6	826.8	347.8	(NA)	CO, AZ, ID, NM.	55
(12)	(12)	(12)	-	(12)	(12)	(NA)	OR.	56
78.7	667.3	320.0	496.9	363.0	242.2	187.2	ID, NV, MT, AZ.	57
18.6	32.0	19.1	(12)	(12)	(12)	(12)	FL.	58
23.8	50.6	22.1	10.5	13.4	9.1	5.8	CA and CO.	59
34.9	64.4	52.6	30.7	(12)	(12)	(12)	ID, CO, UT.	60
163.7	261.7	257.1	251.2	270.8	201.6	170.1	TN, MO, NY, CO.	61
58.4	144.8	157.6	135.6	2,428.0	2,235.0	1,563.0	(X)	62

¹⁰ Comprises value of items that cannot be disclosed. ¹¹ Antimony content. ¹² Included with "Metals, undistributed."

¹³ Dried equivalent. ¹⁴ Represents shipments; includes byproduct ores. ¹⁵ Gross weight.

¹⁶ Content of ore and concentrate. ¹⁷ Content of concentrate. ¹⁸ 5 to 35 percent manganeseiferous ore.

Source: U.S. Bureau of Mines, *Minerals Yearbook*. Beginning 1980 for mineral fuels, U.S. Energy Information Administration, *Annual Energy Review*, *Uranium Industry Annual*, *Petroleum Supply Annual*, vol. 1; *Natural Gas Annual*; and *Quarterly Coal Report*.

Mining and Mineral Products

No. 1178. MINERAL PRODUCTION—VALUE, 1980 TO 1986, AND PRINCIPAL MINERALS IN ORDER OF VALUE, 1986, BY STATE

[In millions of dollars. Data for States may not add to total because State and U.S. totals were independently derived. For composition of regions, see fig. I, inside front cover.]

REGION, DIVISION, AND STATE	1980	1983	1984	1985	(NA)	1986		
						Total	Fuels	Non-fuels
U.S.	146,750	168,868	178,201	187,905	(NA)	93,393	23,452	Petroleum, natural gas (wet), coal.
Region:								
Northeast	4,710	4,476	5,131	5,007	(D)	2,709	(D)	(X)
Midwest	16,286	17,128	18,942	17,867	(D)	(D)	(D)	(X)
South	78,072	(D)	(D)	(D)	(D)	(D)	(D)	(D)
West	39,262	(D)	(D)	(D)	(D)	(D)	(D)	(X)
N.E.	268	262	305	325	375	-	375	(X)
ME	37	26	38	41	53	53	Cement, sand and gravel, stone.	
NH	25	19	23	33	39	-	39	Sand and gravel, stone, clays.
VT	43	42	45	50	55	55	Stone, sand and gravel, talc.	
MA	91	96	107	117	134	-	134	Sand and gravel, stone, lime.
RI	6	8	12	12	14	14	Sand and gravel, stone, gem stones.	
CT	66	71	80	72	80	-	80	Stone, sand and gravel, feldspar.
M.A.	4,442	4,214	4,826	4,682	4,416	2,709	1,707	(X)
NY	557	603	736	790	792	114	878	Stone, cement, salt.
NJ	149	155	156	178	188	-	188	Stone, sand and gravel, zinc.
PA	3,738	3,456	3,924	3,714	3,438	2,595	843	Coal, natural gas, cement.
E.N.C.	9,005	9,145	10,423	9,836	(D)	5,896	2,803	(X)
OH	2,390	2,511	2,867	2,748	2,507	1,887	610	Coal, natural gas, petroleum.
IN	1,108	1,167	1,391	1,327	1,200	895	305	Coal, stone, cement.
IL	2,770	2,929	3,212	3,101	2,714	2,244	470	Coal, petroleum, stone.
MI	2,587	2,417	2,824	2,537	2,114	861	1,253	(NA)
WI	152	101	128	125	165	-	165	Sand and gravel, stone, lime.
W.N.C.	7,281	7,963	8,425	7,831	(D)	(D)	2,792	(X)
MN	1,782	1,455	1,678	1,548	1,128	-	1,128	Iron ore, sand and gravel, stone.
IA	265	257	266	243	282	13	249	Stone, cement, sand and gravel.
MO	1,172	886	906	883	(D)	(D)	749	(NA)
ND	801	1,842	1,887	1,700	982	941	21	Petroleum, coal, natural gas.
SD	250	281	244	254	281	28	233	(NA)
NE	272	283	285	283	191	97	97	Petroleum, cement, sand and gravel.
KS	2,740	3,019	3,161	2,910	1,881	1,583	918	Petroleum, natural gas, cement.
S.A.	10,528	(D)	(D)	10,580	(D)	(D)	3,988	(X)
DE ¹	2	3	4	4	4	-	4	Magnesium compounds, sand and gravel, greensand.
MD	293	285	358	338	413	100	313	Stone, coal, cement.
VA	1,708	1,405	1,814	1,649	(D)	(D)	393	(NA)
NC	4,860	4,877	5,157	5,005	4,699	4,589	130	Coal, natural gas, petroleum.
SC	380	399	451	433	466	-	456	Stone, phosphate, lithium.
GA	195	231	276	278	296	-	296	Cement, stone, clays.
FL	771	(D)	(D)	945	1,091	1,091	Clays, stone, cement.	
	2,317	1,704	1,980	1,929	(D)	(D)	1,295	Phosphate, cement, stone.
E.S.C.	8,316	8,759	9,790	9,485	(D)	(D)	1,255	(X)
KY	4,498	4,310	4,991	4,880	4,482	4,215	267	Coal, stone, natural gas.
TN	674	639	734	715	(D)	(D)	482	(NA)
AL	1,994	2,306	2,531	2,550	2,082	1,857	405	Coal, natural gas, petroleum.
MS	1,150	1,504	1,534	1,341	803	702	101	Petroleum, natural gas, sand and gravel.
W.S.C.	59,228	(D)	(D)	(D)	(D)	(D)	2,889	(X)
AR	787	(D)	(D)	(D)	(D)	(D)	263	(NA)
LA	16,396	20,083	31,715	(D)	(D)	(D)	447	(NA)
OK	7,236	9,942	10,683	9,361	5,749	5,502	247	Natural gas, petroleum, stone.
TX	34,710	42,515	43,418	40,178	24,849	22,937	1,712	Petroleum, natural gas, coal.
M.	18,862	(D)	(D)	(D)	(D)	(D)	4,929	(X)
MT	1,331	1,671	1,850	1,517	1,134	897	237	(NA)
ID	522	416	412	348	247	-	247	Silver, phosphate, molybdenum.
WY	5,133	6,877	7,143	6,572	5,598	3,042	556	Coal, petroleum, natural gas.
CO	2,544	2,117	2,255	2,125	1,484	1,094	370	Petroleum, coal, natural gas.
NM	4,789	5,487	5,924	5,650	3,482	2,850	612	Natural gas, petroleum, coal.
AZ	2,478	(D)	(D)	(D)	(D)	(D)	1,556	(NA)
UT	1,681	2,035	2,134	1,943	1,481	1,087	374	Petroleum, coal, natural gas.
NV	408	629	685	710	(D)	(D)	977	(NA)
Pac.	20,400	(D)	(D)	(D)	(D)	(D)	2,833	(X)
WA	207	(D)	(D)	(D)	(D)	(D)	377	(NA)
OR	152	111	126	140	135	9	126	Stone, sand and gravel, cement.
CA	10,483	11,979	12,907	(D)	8,282	5,993	2,289	Petroleum, natural gas, cement.
AK	9,498	(D)	(D)	(D)	(D)	(D)	91	(NA)
HI	50	52	51	53	70	-	70	Stone, cement, sand and gravel.

- Represents zero.

D Withheld to avoid disclosing individual company data.

NA Not available.

X Not applicable.

Source: U.S. Bureau of the Census. Compiled from data from U.S. Bureau of Mines and U.S. Energy Information Administration.

No. 1179. MINERAL INDUSTRIES—GROSS ASSETS AND CAPITAL EXPENDITURES: 1972 TO 1982

[In millions of dollars]

INDUSTRY AND YEAR	END OF YEAR GROSS VALUE OF DEPRECIABLE ASSETS					CAPITAL EXPENDITURES					
	Total ¹	Buildings and other structures	Machinery and equipment	Mineral exploration and development ¹	Mineral land and rights ¹	Total ²	New buildings and other structures	New machinery and equipment	Used buildings and other structures	Used machinery and equipment	Mineral exploration and development ²
Mineral industries: ³											
1972.....	21,690	4,244	15,038	(4)	2,409	2,802	317	1,407	(4)	128	230
1977.....	44,664	6,099	33,068	2,825	2,871	6,802	785	5,068	30	398	620
1982.....	84,613	10,228	73,419	5,036	5,930	13,472	1,229	10,651	78	937	677
Crude petroleum, natural gas:											
1972.....	47,500	(NA)	(NA)	(NA)	(NA)	2,954	403	842	(4)	44	1,666
1977.....	94,414	(NA)	(NA)	(NA)	(NA)	10,916	571	2,269	14	93	7,868
1982.....	283,052	(NA)	(NA)	(NA)	(NA)	34,281	1,967	6,550	20	215	26,529

NA. Not available. ¹ Excludes data for mineral exploration and development, and mineral land and rights portions for mining service industries and natural gas liquids industry. ² Excludes data for mineral exploration and development portion for mining service industries and natural gas liquids industry. ³ Excludes crude petroleum and natural gas. ⁴ Not collected separately. Data for mineral exploration and development are combined with mineral land and rights. Data for used buildings and other structures are combined with used machinery and equipment.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1982*.

No. 1180. MINERAL INDUSTRIES—EMPLOYMENT, HOURS, AND EARNINGS: 1984 TO 1987

ITEM	Unit	1984	1985	1986	1987	ITEM	Unit	1984	1985	1986	1987
All mining:						Metal mining:					
All employees.....	1,000....	966	927	777	721	All employees.....	1,000....	55	46	41	43
Production workers.....	1,000....	666	658	545	515	Production workers.....	1,000....	40	34	31	33
Average weekly hours....	No.....	43.3	43.4	42.2	42.4	Average weekly hours....	No.....	40.5	40.9	41.1	42.0
Avg. weekly earnings....	Dol.....	504	520	526	531	Avg. weekly earnings....	Dol.....	529	547	542	542
Coal mining:						Nonmetallic minerals, except fuels:					
All employees.....	1,000....	196	187	176	163	All employees.....	1,000....	109	110	110	110
Production workers.....	1,000....	158	153	144	133	Production workers.....	1,000....	83	84	83	84
Average weekly hours....	No.....	40.8	41.3	40.8	42.2	Average weekly hours....	No.....	44.7	44.5	44.5	45.4
Avg. weekly earnings....	Dol.....	603	626	625	662	Avg. weekly earnings....	Dol.....	441	453	462	492
Oil and gas extraction:											
All employees.....	1,000....	607	583	451	405						
Production workers.....	1,000....	405	387	287	264						
Average weekly hours....	No.....	44.4	44.2	42.6	41.7						
Avg. weekly earnings....	Dol.....	476	489	495	480						

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings, United States 1909-1984*, and *Supplement to Employment and Earnings, Revised Establishment Data*, August 1988.

No. 1181. SELECTED MINERAL PRODUCTS—AVERAGE PRICES: 1970 TO 1987

[Excludes Alaska and Hawaii, except as noted. See *Historical Statistics, Colonial Times to 1970*, series M 96, M 139, M 209, M 248, and M 262, for bituminous coal, crude petroleum, iron ore, lead, and aluminum, respectively]

YEAR	Tan-talum (dol. per lb.) ¹	Copper, electro- lytic ² (cents per lb.)	Plati- num ³ (dol./ troy oz.)	Gold (dol./ fine oz.)	Silver (dol./ fine oz.)	Lead ⁴ (cents per lb.)	Tin (New York) ⁵ (cents per lb.)	Zinc ⁶ (cents per lb.)	Sulfur, crude ⁷ (dol./ metric ton)	Bitumi- nous coal ⁸ (dol./ short ton)	Crude petro- leum ⁸ (dol./ bbl.)	Natural gas ⁸ (dol./ thous. cu. ft.)
1970.....	9.15	58.2	133	36	1.77	15.7	174.2	15.3	22.77	6.26	3.18	.17
1975.....	18.32	64.2	164	161	4.42	21.5	339.8	39.0	44.81	19.23	7.67	.45
1976.....	20.31	69.6	162	125	4.35	23.1	378.8	37.1	45.72	19.43	8.19	.58
1977.....	25.64	66.8	162	148	4.62	30.7	534.8	34.4	44.38	19.82	8.57	.79
1978.....	34.19	66.5	237	194	5.40	33.7	629.6	31.0	45.17	21.78	9.00	.81
1979.....	60.00	93.3	352	308	11.08	52.6	753.9	37.3	55.75	23.85	12.64	1.18
1980.....	126.37	101.3	439	613	20.83	42.5	846.0	37.4	89.06	24.52	21.59	1.59
1981.....	99.51	84.2	475	460	10.52	36.5	739.0	44.6	111.48	26.29	31.77	1.98
1982.....	49.95	72.8	475	376	7.95	25.5	654.0	38.5	108.27	27.14	28.52	2.46
1983.....	30.60	76.5	475	424	11.44	21.7	655.0	41.4	87.24	25.85	26.19	2.59
1984.....	37.44	66.8	475	361	8.14	25.6	623.8	48.6	94.31	25.51	25.88	2.66
1985.....	33.68	87.0	475	318	6.14	19.1	595.8	40.4	106.48	25.10	24.09	2.51
1986.....	23.74	66.1	519	368	5.47	22.1	383.0	38.0	105.22	23.70	12.51	1.94
1987, prel....	27.08	82.5	600	448	7.01	35.9	419.0	41.9	89.78	23.00	15.41	1.71

¹ Dollars per pound of tantalum content. ² Domestic market. ³ Average annual producer prices. ⁴ 1970, New York prices; beginning 1975, nationwide delivered basis. ⁵ Straits tin through 1975; thereafter, composite price. ⁶ Prime western. Beginning 1975, delivered price. ⁷ F.O.B. works. ⁸ Average value at the point of production. Source: U.S. Energy Information Administration, *Annual Energy Review*. ⁹ Per long ton.

Source: Except as noted, U.S. Bureau of Mines, *Mineral Facts and Problems*, 1980 edition, and *Mineral Commodity Summaries*, annual.

NO. 1182. PRINCIPAL FUELS, NONMETALS, AND METALS—U.S. PRODUCTION AS PERCENT OF WORLD PRODUCTION: 1970 TO 1986

MINERAL	WORLD PRODUCTION						PERCENT U.S. OF WORLD						
	Unit	1970	1980	1983	1984	1985	1986, prel.	1970	1980	1983	1984	1985	1986, prel.
Fuels:													
Coal	Bil. sh. ton	3.3	4.2	4.4	4.6	4.8	5.0	18	20	18	19	18	18
Petroleum (crude)	Bil. bbl.	16.7	21.8	19.3	19.7	19.4	20.3	21	14	16	16	17	16
Natural gas (dry, marketable)	Trl. cu. ft.	37.7	53.3	54.5	59.3	62.2	63.3	58	36	29	29	28	25
Natural gas plant liquids	Bil. bbl.	(NA)	1.3	1.4	1.6	1.6	1.7	(NA)	44	40	37	36	34
Nonmetals:													
Asbestos	Mil. metric ton	3.5	4.7	4.3	4.1	4.7	4.5	3	2	2	1	1	1
Barite	Mil. sh. ton	4.3	8.3	6.0	6.4	6.6	5.4	20	27	13	12	11	15
Feldspar	Mil. sh. ton	2.8	3.5	3.9	4.2	4.5	4.6	26	20	18	17	16	16
Fluorspar	Mil. sh. ton	4.6	5.3	4.7	5.3	5.4	5.4	4	2	1	1	1	1
Gypsum	Mil. sh. ton	56.9	86.5	86.5	89.0	93.8	96.5	17	13	15	16	16	16
Mica (incl. scrap)	1,000 sh. ton	180	251	268	304	278	290	66	46	53	53	50	51
Nitrogen, agricultural ²	Mil. sh. ton	33.4	81.4	87.6	94.9	97.0	95.8	25	20	13	14	14	12
Phosphate rock	Mil. metric ton	85	139	139	150	147	137	41	39	31	33	35	28
Potash (K ₂ O equiv.)	Mil. metric ton	18.2	27.9	27.4	29.3	29.0	28.2	14	8	5	5	4	4
Sulfur, elemental	Mil. metric ton	41.9	54.9	50.3	52.6	54.6	54.2	23	22	18	20	21	20
Metals, mine basis:													
Bauxite	Mil. metric ton	57.8	89.2	78.9	88.2	84.3	85.9	4	2	1	1	1	1
Columbian concentrates (columbian content)	Mil. lb.	(NA)	33.4	18.9	32.8	35.1	33.1	(NA)	—	—	—	—	—
Copper ³	Mil. metric ton	6.0	7.7	7.7	8.0	8.1	8.2	26	15	13	14	14	14
Gold	Mil. troy oz.	47.5	39.2	44.9	46.4	48.7	50.9	4	2	4	4	5	7
Iron ore	Mil. lg. ton	754	877	729	822	840	848	12	8	5	6	6	5
Lead ³	Mil. metric ton	3.4	3.4	3.4	3.3	3.4	3.2	15	16	14	10	13	11
Mercury	1,000 flask	284	187	181	195	196	176	10	16	14	10	9	(NA)
Molybdenum ³	Mil. lb.	181	242	140	215	218	206	61	62	24	48	50	46
Nickel ³	1,000 sh. ton	693	858	742	847	882	836	2	2	—	2	1	(2)
Silver	Mil. troy oz.	301	344	392	415	421	420	15	9	11	11	9	8
Tantalum concentrates (tantalum content)	Mil. lb.	(NA)	1.2	.7	.7	.7	.4	(NA)	—	—	—	—	—
Titanium concentrates:													
Ilmenite	Mil. sh. ton	\$4.0	4.1	3.0	3.4	3.8	3.8	23	14	(NA)	(NA)	(NA)	(NA)
Tungsten	Mil. lb.	71.4	114.6	90.2	101.7	102.5	93.6	13	5	2	3	2	2
Vanadium ³	1,000 sh. ton	19.9	38.3	30.9	34.3	32.2	32.5	26	13	7	5	5	(NA)
Zinc ³	Mil. metric ton	5.5	6.0	6.2	6.8	6.9	6.8	9	5	5	4	5	5
Metals, smelter basis:													
Aluminum	Mil. sh. ton	10.6	16.9	13.9	17.3	16.9	16.9	37	30	24	26	23	23
Cadmium	Mil. lb.	36.5	40.2	36.9	42.3	41.1	40.2	26	9	6	9	8	8
Copper	Mil. metric ton	6.1	7.9	8.1	8.3	8.6	8.6	24	13	12	14	14	14
Iron, pig (incl. ferroalloys)	Mil. sh. ton	474	565	510	547	555	547	19	12	10	10	9	9
Lead	Mil. metric ton	3.3	5.4	5.3	5.5	5.6	5.4	18	23	19	20	20	18
Magnesium	1,000 sh. ton	242	348	286	360	362	359	46	49	40	44	41	38
Steel Ingots and castings	Mil. sh. ton	655	787	731	782	790	781	20	14	12	12	11	10
Tin	1,000 m. ton ⁶	227	249	212	200	197	190	(NA)	1	1	2	2	2
Zinc	Mil. metric ton	4.8	6.0	6.2	6.5	6.9	6.8	18	6	5	5	5	5

¹ Represents zero, NA Not available, Z Less than .5 percent.

¹ Source: Beginning 1980, Energy Information Administration, *International Energy Annual*.

² For fiscal years ending in year shown; see text, section 9, U.S. production includes Puerto Rico.

³ Content of ore and concentrate. ⁴ 76-lb. flasks. ⁵ Excludes Soviet Union. ⁶ Metric tons.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*, annual.

NO. 1183. FEDERAL STRATEGIC AND CRITICAL MATERIALS INVENTORY: 1980 TO 1987

[As of Dec. 31. Covers strategic and critical materials essential to military and industrial requirements in time of national emergency. Market values are estimated current trade values of similar materials and not necessarily amounts that would be realized at time of sale.]

MINERAL	QUANTITY ¹						VALUE (mil. dol.)					
	Unit	1980	1984	1985	1986	1987	1980	1984	1985	1986	1987	
Tin	1,000 lg. ton	200	186	185	181	177	3,158	2,335	2,324	1,024	1,239	
Silver	1,000 troy oz.	139,500	136,506	136,006	113,682	2,288	986	801	730	663	863	
Cobalt	Mil. lb.	41	46	53	53	53	1,020	508	580	600	580	
Bauxite ²	1,000 lg. ton	14,333	16,954	17,957	18,212	18,212	583	779	871	888	888	
Manganese ³	1,000 sh. ton	3,495	4,361	4,470	4,285	4,210	540	506	520	522	442	
Tungsten ⁴	Mil. lb.	62	88	87	88	84	533	505	369	260	287	
Zinc	1,000 sh. ton	376	378	378	378	378	313	343	288	347	363	
Titanium	1,000 sh. ton	21	32	37	37	37	301	386	405	278	306	
Platinum	1,000 troy oz.	440	453	453	453	453	209	147	154	270	270	
Chromium ⁵	1,000 sh. ton	763	784	834	883	919	747	798	836	870	898	
Diamond:												
Stones	Carat.	19,224	14,047	12,549	11,049	9,550	349	357	336	315	280	
Industrial, bort	Carat.	23,693	22,001	22,001	22,001	22,001	73	39	39	39	39	

¹ Consists of stockpile and nonstockpile grades and reflects uncommitted balances. ² Consists of abrasive grade, metallic grade Jamaica, metallic grade Suriname, and refractory. ³ Consists of chemical grade, dioxide battery natural, dioxide battery synthetic, electrolytic, ferro-high carbon, ferro-med, carbon, ferro-silicon, and metal. ⁴ Consists of carbide powder, ferro, metal powder, and ores and concentrates. ⁵ Consists of ferro-high carbon, ferro-low carbon, ferro-silicon, and metal.

Source: U.S. General Services Administration, *Statistical Supplement, Stockpile Report to the Congress* (AP-3).

Mineral and Metal Products—Injuries and Fatalities

679

NO. 1184. SELECTED MINERAL AND METAL PRODUCTS—QUANTITY AND VALUE OF IMPORTS AND EXPORTS: 1980 TO 1986

[Imports represent imports for consumption. Exports include shipments under foreign aid programs. Includes trade of Puerto Rico with foreign countries]

PRODUCT	UNIT	QUANTITY					VALUE (mil. dol.)				
		1980	1983	1984	1985	1986	1980	1983	1984	1985	1986
IMPORTS											
Petroleum (crude) ¹	Mil. bbl	1,975	1,283	1,317	1,625	1,626	61,899	36,492	37,859	22,608	22,608
Gem stones: Diamonds	Mil. carat	4.2	6.3	8.2	8.2	9.2	2,251	2,275	2,905	3,007	3,460
Ores and concentrates:											
Chromium (Cr ₂ O ₃ content)	1,000 sh. ton.	410	86	134	176	214	57	10	15	20	22
Copper	Mil. lb	58	100	12	3	5	73	82	10	2	3
Iron	Mil. lg. ton	25.1	13.2	17.2	15.8	16.7	773	446	529	452	460
Tungsten	Mil. lb	11.4	6.3	12.8	10.5	5.6	87	26	52	37	14
Metals:											
Aluminum	1,000 sh. ton.	581	818	972	958	1,487	778	1,021	1,293	1,017	1,683
Cobalt	Mil. lb	15.0	15.9	23.3	16.6	11.7	359	110	203	181	83
Copper refined (ingots, etc)	1,000 sh. ton.	471	507	490	416	583	935	701	621	492	877
Gold (bullion)	Mil. troy oz	4.1	3.6	6.0	6.4	13.8	2,507	1,576	2,294	2,109	5,107
Iron and steel products (major)	Mil. sh. ton	16.2	17.8	27.3	25.5	21.7	7,713	7,129	11,356	10,874	9,196
Platinum group ²	Mil. troy oz	3.5	3.2	4.5	4.0	4.5	1,177	753	1,118	1,026	1,347
Silver (bullion)	Mil. troy oz	64.9	161.2	93.5	137.4	125.4	1,332	1,926	785	656	688
Zinc: Blocks, pigs, slabs	1,000 sh. ton.	452	681	705	673	733	319	504	636	508	487
EXPORTS											
Fuels: ¹											
Bituminous coal	Mil. sh. ton	89.9	76.9	80.8	84.0	84.0	4,523	4,008	4,090	3,862	3,862
Petroleum (crude)	Mil. bbl	30.6	6.8	5.8	6.0	6.0	751	224	185	117	117
Nonmetallic minerals:											
Gem stones: Diamonds	Mil. carat	1.3	2.5	2.3	2.4	2.5	1,041	822	575	571	788
Nitrogen compounds (maj.)	Mil. sh. ton	11.1	7.5	10.4	10.8	7.8	1,842	1,050	1,635	1,553	(NA)
Phosphatic fertilizers ³	Mil. sh. ton	7.2	6.8	8.2	6.1	5.8	1,383	885	1,350	1,225	797
Metals:											
Aluminum: Ingots, slabs, crude	1,000 sh. ton.	715	398	286	383	231	1,107	534	397	442	283
Plates, sheets, bars, etc.	1,000 sh. ton.	306	178	219	185	198	718	389	497	411	443
Gold (refined bullion)	Mil. troy oz	4.7	1.9	3.5	2.9	3.2	2,787	825	1,285	919	1,208
Iron and steel products (major)	Mil. sh. ton	4.5	1.4	1.2	1.1	1.1	3,504	1,609	1,418	1,321	1,300
Magnesium ⁴	1,000 sh. ton.	56.8	46.7	48.3	40.3	44.0	128	125	137	114	122
Molybdenum ⁵	1,000 lb	614	577	306	574	1,000	5	2	1	2	3
Silver (refined bullion)	Mil. troy oz	57.2	13.7	10.3	12.6	10.1	1,327	169	86	82	57
Scrap exports:											
Aluminum	1,000 sh. ton.	445	282	285	413	387	483	249	276	351	333
Iron and steel	Mil. sh. ton	11.4	7.8	9.8	10.2	12.0	1,257	651	938	940	1,082

NA Not available. ¹Source: U.S. Bureau of the Census, *U.S. Imports for Consumption and General Imports*, *TSUSA Commodity and Country*, FT 246, annual; and *U.S. Exports, Schedule B Commodity and Country*, FT 446, annual. ²Unworked and semimanufactured. ³Superphosphates and ammonium phosphates. ⁴Metal and alloys, scrap, semimanufactured forms. ⁵Metals and alloys, crude and scrap.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*.

NO. 1185. MINERAL INDUSTRIES—LOST WORKDAY INJURIES AND FATALITIES: 1980 TO 1987

[Excludes office workers. Lost workday injuries are nonfatal occurrences that result in days away from work, days of restricted work activity or a permanent disability. Data for all years includes injuries to independent contractors at mine sites. Beginning with 1983, rates for the non-coal industries are based only on employment and hours worked by mine employees. See also *Historical Statistics, Colonial Times to 1970*, series M 271-286.]

ITEM	1980	1985	1986	1987 ¹	ITEM	1980	1985	1986	1987 ¹
Coal mining:									
Injuries, total	18,822	9,141	9,492	11,730	Quarrying and related industries—Con.				
Fatal	133	68	88	63	Rate per million work-hours:				
Percent of total	.7	.7	.9	.5	Fatal	.3	.2	.1	.2
Rate per million work-hours:					Nonfatal	21	19	20	23
Fatal	.3	.2	.3	.2	Fatalities per 1,000 employed ² :				
Nonfatal	.43	.27	.29	.40	Nonfatal	.5	.4	.3	.3
Fatalities per 1,000 employed ²	.55	.36	.50	.37	Fatal	6,923	2,234	2,216	2,812
Quarrying and related industries: ³					Nonfatal	46	22	16	.26
Injuries, total	3,551	2,571	2,819	3,146	Fatalities per 1,000 employed ² :				
Fatal	42	28	20	22	Nonfatal	.2	.17	.18	.22
Percent of total	1.2	1.0	.7	.7	Fatalities per 1,000 employed ²				

¹Preliminary. ²Average number of persons at work each day mines were active. ³Includes cement. ⁴Nonmetal mines exclude extraction of Frasch process sulfur.

Source: U.S. Mine Safety and Health Administration, Denver, CO, unpublished data.

NO. 1186. NET U.S. IMPORTS OF SELECTED MINERALS AND METALS AS PERCENT OF APPARENT CONSUMPTION, 1970 TO 1986, AND BY MAJOR FOREIGN SOURCES, 1982-1985

[In percent. Figures based on net imports which equal the difference between imports and exports plus or minus government stockpiles and industry stock changes]

MINERAL	1970	1980	1982	1983	1984	1985	1986	Rank of major foreign sources, 1982-1985
Columbium	100	100	100	100	100	100	100	Brazil, Canada, Thailand.
Mica (sheet)	100	100	100	100	100	(NA)		India, Belgium, France.
Strontrium	100	100	100	100	100	100	100	Mexico, Spain.
Manganese	95	98	99	99	98	100	100	Ore: Gabon, Brazil, South Africa.
Bauxite ¹	88	94	96	96	96	96	96	Bauxite: Guinea, Jamaica, Brazil; Alumina: Australia, Jamaica, Suriname.
Platinum group	78	88	81	89	88	92	92	South Africa, United Kingdom, Soviet Union.
Tantalum	96	90	92	97	92	89	91	Thailand, Brazil, Australia.
Cobalt	98	93	92	95	95	94	85	Zaire, Zambia, Canada.
Potassium	42	65	65	75	74	77	(NA)	Canada, Israel.
Chromium	88	91	85	76	80	75	79	South Africa, Turkey, Zimbabwe.
Nickel	71	71	76	75	68	72	75	Canada, Australia, Botswana.
Tin	81	79	68	73	74	72	74	Thailand, Malaysia, Bolivia, Indonesia.
Asbestos	83	78	74	65	75	71	(NA)	Canada, South Africa.
Zinc	54	60	58	65	68	70	73	Ore: Canada, Mexico, Honduras; Metal: Canada, Mexico, Peru.
Barium	45	44	55	65	69	69	(NA)	Canada, Morocco, Chile.
Titanium ²	24	32	74	(D)	(D)	(D)	(D)	Australia, Canada, South Africa.
Silver	26	7	55	59	58	59	71	Canada, Mexico, United Kingdom.
Tungsten	50	53	42	52	70	68	70	Canada, China, Mainland, Bolivia.
Antimony	40	48	50	54	58	(D)	(D)	Metal: China; Mainland, Mexico, Bolivia; Ore: Bolivia, Mexico, China.
Mercury	41	26	32	30	57	50	(D)	Spain, Algeria, Japan.
Cadmium	7	55	73	72	51	57	66	Canada, Australia, Mexico.
Selenium	11	59	55	39	47	(D)	(D)	Canada, United Kingdom, Japan.
Vanadium	21	35	24	28	54	(D)	(D)	Minerals: South Africa, Venezuela; Chemicals: E.E.C. ³ , Canada, South Africa.
Gypsum	39	35	36	40	38	38	(NA)	Canada, Mexico, Spain.
Petroleum ⁴	23	39	30	30	32	29	36	Mexico, Canada, Venezuela.
Iron ore	30	25	34	37	18	21	33	Canada, Brazil, Venezuela.
Copper	(D)	14	1	19	23	28	27	Chile, Canada, Peru.
Aluminum	(D)	7	7	17	7	16	26	Canada, Japan, Ghana.
Iron and steel	4	15	20	16	23	22	21	E.E.C., Japan, Canada.
Sulfur	(D)	14	4	15	16	5	(NA)	Canada, Mexico.
Natural gas ⁵	4	5	5	5	4	5	4	Canada, Algeria.

D Withheld to avoid disclosure. NA Not available.

¹ Includes alumina.

² Ilmenite.

³ European Economic Community.

⁴ Includes crude and products.

⁵ Source: Beginning 1980, Energy Information Administration, *International Energy Annual*.

⁶ Net exports.

Source: Except as noted, U.S. Bureau of Mines, *Mineral Commodity Summaries*; import and export data from U.S. Bureau of the Census.

NO. 1187. PETROLEUM INDUSTRY—SUMMARY: 1970 TO 1987

ITEM	1970 ¹	1973	1975	1980	1981	1982	1983, est.	1984, est.	1985, est.	1986, est.	1987, prel.
Crude oil producing wells, total (Dec. 31) (1,000)	531	497	500	548	557	580	603	621	647	623	620
Daily output per well (bbl.)	18.0	18.3	16.8	15.8	15.4	14.9	14.4	14.3	13.9	13.9	13.4
Completed wells drilled, total (1,000)	28	28	39	70	90	84	75	84	69	38	34
Crude oil (1,000)	13	10	17	32	43	43	39	37	42	35	16
Gas (1,000)	4	7	8	17	20	19	14	17	20	14	8
Dry ('000)	11	10	14	20	27	26	23	25	20	12	11
Crude oil production, total (mil. bbl.)	3,517	3,361	3,057	3,146	3,129	3,157	3,171	3,250	3,275	3,168	3,047
Value at wells (bil. dol.)	11.2	13.1	23.5	67.9	99.4	90.0	83.1	84.1	78.8	40.0	46.7
Average price per barrel (dol.)	3.18	3.89	7.67	21.59	31.77	28.52	26.19	25.88	24.09	12.51	15.41
Refinery input of crude oil	3,968	4,537	4,541	4,934	4,552	4,297	4,265	4,408	4,381	4,641	4,892
Imports: Crude oil (mil. bbl.)	483	1,184	1,498	1,926	1,805	1,273	1,215	1,254	1,168	1,525	1,706
Refined petroleum products (mil. bbl.)	765	1,098	712	803	584	593	629	738	681	747	731
Import value (mil. dol.)	2,743	7,738	25,059	74,440	75,578	59,587	51,333	54,310	50,368	34,790	44,279
Export value (mil. dol.)	520	575	1,007	2,871	3,815	6,330	5,100	4,801	5,121	3,883	3,922
Operable refineries, number	276	268	278	318	324	301	258	247	223	216	219
Capacity (Jan. 1) (mil. bbl.)	4,388	4,979	5,461	6,584	6,796	8,530	6,154	5,907	5,716	5,643	5,683
Output (mil. bbl.)	4,421	5,057	4,995	5,252	5,106	4,888	4,795	5,007	5,019	5,301	5,339
Utilization rate (per cent)	92.6	93.8	86.5	75.4	68.6	69.9	71.7	76.2	77.6	82.9	82.6
Proved reserves (bil. bbl.)	39.0	35.3	32.7	29.8	29.4	27.9	27.7	28.4	28.4	26.9	(NA)

NA Not available.

¹ Represents peak year for U.S. crude oil production.

Source: U.S. Energy Information Administration, *Annual Energy Review*, and *Petroleum Supply Annual*.

NO. 1188. U.S. PETROLEUM BALANCE: 1980 TO 1987

[In millions of barrels]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987
Petroleum products supplied	6,242	5,861	5,583	5,559	5,756	5,740	5,942	6,083
New supply of products	6,249	5,828	5,499	5,471	5,800	5,676	5,995	6,053
Production of products	5,765	5,432	5,204	5,160	5,392	5,363	5,604	5,680
Crude input to refineries	4,934	4,652	4,297	4,265	4,408	4,381	4,641	4,692
Oil field production	3,146	3,129	3,157	3,171	3,250	3,275	3,168	3,047
Alaska	592	587	619	626	631	666	681	716
Lower 48 States	2,555	2,541	2,538	2,545	2,619	2,608	2,487	2,331
Net imports	1,821	1,522	1,187	1,155	1,188	1,094	1,468	1,651
Imports (gross excluding SPR) ¹	1,910	1,511	1,213	1,130	1,182	1,125	1,507	1,679
SPR ¹ imports	16	93	60	85	72	43	18	27
Exports	-105	83	86	60	66	75	56	55
Other sources	33	-98	-46	61	29	12	4	7
Natural gas plant liquids (NGPL), supply	577	593	578	570	596	604	575	585
Other liquids	253	287	328	326	371	378	388	403
Net imports of refined products	484	397	295	311	407	313	381	373
Imports	578	531	506	520	604	523	621	596
Exports	94	134	211	210	197	210	229	223
Stock withdrawal, refined products	-7	33	84	88	-44	64	53	30
Ending stocks, all oils	1,392	1,484	1,430	1,454	1,556	1,519	1,593	1,607
Crude oil and lease condensate	358	363	350	344	345	321	331	349
Strategic petroleum reserve (SPR) ¹	108	230	294	379	451	493	512	541
Unfinished oils	124	111	105	108	94	107	94	93
Gasoline blending components	17	50	42	38	39	33	39	38
Pentanes plus	(NA)	16	11	16	8	8	7	7
Finished refined products	785	713	628	569	621	557	609	580
PRODUCT TYPE SUPPLIED								
Total products	6,242	5,861	5,583	5,559	5,756	5,740	5,942	6,083
Finished motor gasoline	2,407	2,404	2,987	2,417	2,449	2,493	2,567	2,630
Distillate fuel oil	1,049	1,032	975	982	1,041	1,047	1,064	1,086
Residual fuel oil	918	762	627	519	499	518	462	462
Liquified petroleum gases ²	414	535	547	551	576	584	552	588
Pentanes plus, other liquids, etc.	1,454	1,128	1,047	1,067	1,165	1,155	1,223	1,304
Crude oil	(NA)	(NA)	(NA)	24	23	22	18	12

NA Not available. ¹ SPR=Strategic petroleum reserve. For more information, see table 947.² Includes ethane.Source: U.S. Energy Information Administration, *Petroleum Supply*, annual.

NO. 1189. CRUDE PETROLEUM AND NATURAL GAS—PRODUCTION, BY STATE: 1980 TO 1987

[See *Historical Statistics, Colonial Times to 1970*, series M 138 and M 142 for petroleum production, and series M 147-161 for natural gas production]

STATE	CRUDE PETROLEUM PRODUCTION (mil. bbl.)							NATURAL GAS MARKETED PRODUCTION ¹ (bil. cu. ft.)						
	1980	1982	1983	1984	1985	1986	1987	1980	1982	1983	1984	1985	1986	1987, prel.
Total²	3,147	3,157	3,171	3,241	3,274	3,168	3,047	20,180	18,520	16,822	18,230	17,198	16,791	17,155
AL	22	20	19	20	22	21	21	65	75	91	102	107	107	117
AK	592	619	626	630	666	681	716	231	264	277	289	321	305	360
AR	18	19	19	19	19	16	14	112	125	128	135	155	131	132
CA	357	402	405	412	424	407	365	310	384	415	476	491	462	428
CO	30	31	29	29	30	29	29	188	210	164	173	178	164	163
FL	43	26	19	14	11	9	8	41	23	21	13	11	9	8
IL	23	28	29	29	30	27	24	2	1	1	2	1	2	(NA)
IN	5	6	5	6	5	5	4	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(NA)
KS	60	71	72	76	75	67	60	735	430	435	466	513	466	395
KY	6	7	8	8	8	6	6	57	52	47	62	73	80	(NA)
LA	469	458	480	515	508	512	437	6,639	6,172	5,332	5,825	5,014	4,895	5,096
MI	34	31	32	31	27	26	26	158	153	139	145	132	127	162
MS	36	33	31	33	31	30	28	175	167	151	158	144	141	138
MT	30	31	29	30	30	27	25	52	57	52	51	52	47	46
NE	6	7	6	6	7	7	6	3	2	2	2	2	1	(NA)
NM	75	71	75	79	79	76	72	1,150	991	895	957	905	703	818
NY	1	1	1	1	1	1	1	16	16	18	25	32	30	(NA)
ND	40	47	51	53	51	46	41	42	54	69	70	73	55	63
OH	13	15	15	15	15	13	12	139	138	151	186	182	182	(NA)
OK	150	159	159	168	163	149	134	1,892	1,934	1,730	1,986	1,936	1,817	1,987
PA	3	4	4	4	5	4	3	97	121	118	166	150	160	(NA)
TX	977	925	903	905	889	840	761	7,116	6,469	5,939	6,185	6,053	6,162	6,061
UT	25	22	30	35	41	39	36	88	94	63	75	83	90	93
WV	2	3	4	4	4	3	3	157	151	130	144	145	135	116
WY	126	118	118	124	129	121	115	410	425	444	517	417	403	441

NA Not available. Z Less than 500 million cubic feet. ¹ Excludes nonhydrocarbon gases.² Includes other States not shown separately. State production does not include State offshore production.Source: U.S. Energy Information Administration, *Natural Gas Annual*, *Natural Gas Monthly*, *Energy Data Reports*, and *Petroleum Supply Annual*.

Mining and Mineral Products

No. 1190. CRUDE PETROLEUM AND NATURAL GAS—WELLS DRILLED, FOOTAGE, AND DRILLING COST, 1970 TO 1987 AND BY TYPE OF WELL, 1987

[Includes all costs incurred for drilling and equipping wells to point of completion as productive wells or abandonment after drilling becomes unproductive. Based on sample of operators of different size drilling establishments]

YEAR	WELLS DRILLED		Footage drilled (mill. ft.)	DRILLING COST (mil. dol.)		Average depth per well (ft.)	AVERAGE COST PER WELL (\$1,000)		Average cost per ft. (dol.)
	Total	Off-shore		Total	Off-shore		Total	Off-shore	
Wells, total:									
1970	27,177	1,058	136.9	2,579	599	5,037	95	566	18.84
1975	36,960	1,028	177.6	6,571	1,174	4,808	178	1,142	36.99
1980	62,011	1,272	296.0	22,800	3,846	4,773	388	3,024	77.02
1981	80,816	1,476	388.8	36,655	5,651	4,811	454	3,781	94.30
1982	76,652	1,464	362.6	39,428	6,154	4,731	514	4,203	106.73
1983	67,538	1,270	301.2	25,105	4,961	4,460	372	3,906	83.34
1984	77,210	1,421	350.6	25,206	5,024	4,541	326	3,536	71.90
1985	67,921	1,247	314.5	23,897	5,079	4,637	349	4,073	75.35
1986	37,173	898	176.3	13,552	3,596	4,742	365	4,004	76.88
1987	33,041	709	157.4	9,239	2,053	4,782	280	2,896	58.71
Oil wells	15,326	224	64.5	3,769	896	4,215	248	3,107	58.85
Gas wells	7,255	142	38.7	2,759	421	5,469	380	2,967	69.55
Dry holes	10,460	343	53.1	2,710	936	5,075	259	2,728	51.05

Source: American Petroleum Institute, Independent Petroleum Association of America, and Mid-Continent Oil and Gas Association, *Joint Association Survey on Drilling Costs*, annual.

No. 1191. FEDERAL OFFSHORE LEASING, EXPLORATION, PRODUCTION, AND REVENUE: 1975 TO 1987

[See source for explanation of terms and for reliability statement]

ITEM	Unit	1975	1976	1979	1980	1981	1982	1983	1984	1985	1986	1987
Tracts offered	Number	1,374	586	666	483	1,398	1,410	21,689	27,984	15,754	10,724	10,926
Tracts leased	Number	321	249	351	218	430	357	1,251	1,400	667	142	640
Acres offered	1,000	7,247	3,141	3,412	2,563	7,680	7,637	120,054	154,384	87,029	58,670	59,762
Acres leased	1,000	1,680	1,297	1,767	1,134	2,265	1,886	6,588	7,495	3,512	734	45,075
Bonus paid for leased tracts	Bil. dol.	1.1	1.8	5.1	4.2	6.6	4.0	5.7	4.0	1.5	.2	.5
New wells being drilled:												
Active	Number	97	117	175	191	173	166	134	253	195	95	142
Suspended	Number	292	486	603	739	724	701	597	313	348	279	255
Wells completed	Number	6,104	8,433	8,964	9,638	10,308	11,164	11,990	13,012	12,285	12,536	12,736
Wells plugged and abandoned	Number	5,617	7,133	7,576	8,057	8,704	8,913	9,374	9,903	10,487	11,909	12,373
Revenue, total ¹	Bil. dol.	1.7	2.9	6.6	6.4	9.9	7.8	9.2	8.0	5.2	2.8	2.9
Bonuses	Bil. dol.	1.1	1.8	5.1	4.2	6.6	4.0	5.7	4.0	1.5	.2	.5
Oil and gas royalties ¹	Bil. dol.	.6	1.1	1.5	2.1	3.3	3.8	3.4	4.0	3.6	2.8	2.3
Rentals	Bil. dol.	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	.1	.1	.1
Production, value ²	Bil. dol.	3.9	7.1	9.3	13.1	20.2	22.6	21.0	24.0	22.2	15.7	14.8
Crude oil	Bil. dol.	2.2	2.6	2.9	4.8	8.8	8.9	9.1	9.6	9.6	5.8	5.6
Condensate	Bil. dol.	.2	.2	.3	.4	.8	1.2	1.1	1.2	1.0	.7	.7
Natural gas	Bil. dol.	1.5	4.1	6.1	7.9	10.5	12.4	11.0	13.2	11.5	9.3	8.1
Production: ²												
Crude oil	Mil. bbls.	303	270	262	259	263	264	304	330	352	350	325
Condensate	Mil. bbls.	27	22	23	19	27	37	36	40	37	39	41
Natural gas	Tril. cu. ft.	3,459	4,385	4,673	4,641	4,850	4,680	3,940	4,537	4,000	3,949	4,425

Z. Less than \$50 million. ¹ Includes condensate royalties. ² Production value is value at time of production, not current value.

Source: U.S. Dept. of the Interior, Minerals Management Service, *Federal Offshore Statistics*, annual.

No. 1192. NATURAL GAS PLANT LIQUIDS—PRODUCTION AND VALUE: 1970 TO 1987

[Barrels of 42 gallons. See also *Historical Statistics, Colonial Times to 1970*, series M 143-146]

ITEM	Unit	1970	1973	1975	1980	1981	1982	1983	1984	1985	1986	1987
Field production	Mil. bbl.	806	834	594	576	588	566	569	596	582	564	581
Pentanes plus	Mil. bbl.	187	182	149	126	122	103	85	107	103	98	106
Liquefied petroleum gases	Mil. bbl.	400	447	444	441	459	480	488	479	466	474	474
Ethane	Mil. bbl.	73	108	123	145	145	155	166	185	180	177	182
Propane ^{1,2}	Mil. bbl.	206	214	202	161	190	189	197	193	190	185	184
Butane (incl. isobutane) ²	Mil. bbl.	121	124	119	115	124	114	116	111	109	104	109
Other finished petroleum products	Mil. bbl.	9	6	2	8	7	4	4	1	5	2	2
All light products:												
Average value	Dol. per bbl.	2.10	2.93	4.65	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Average yield	Gal. per 1,000 cu. ft.	1.37	1.95	1.42	1.63	1.65	1.68	1.80	1.79	1.84	1.82	1.81
Natural gas processed	Tril. cu. ft.	19	20	18	15	15	14	13	14	13	13	14

NA Not available. ¹ Reported production of ethane-propane mixtures have been allocated 70 percent ethane and 30 percent propane. ² Reported production of ethane-propane mixtures have been allocated 60 percent ethane and 40 percent propane.

³ Estimated.

Source: Through 1975, U.S. Bureau of Mines, *Minerals Yearbook*; thereafter, U.S. Energy Information Administration, *Energy Data Reports, Petroleum Statement Annual, Petroleum Supply Annual*, and *Natural Gas Annual*.

No. 1193. NATURAL GAS—SUPPLY, CONSUMPTION, RESERVES, AND MARKETED PRODUCTION:
1970 TO 1987

[See also *Historical Statistics, Colonial Times to 1970*, series M 147-161]

ITEM	Unit	1970	1973	1975	1980	1981	1982	1983	1984	1985	1986	1987, prel.
Producing wells (yearend)												
Production value at wells	Bil. dol.	117	124	130	182	199	211	222	234	243	242	254
Avg. per 1,000 cu. ft.	Dollars	3.7	5.0	9.0	32.1	39.5	45.6	43.6	48.5	43.2	32.6	29.4
Proved reserves ¹	Tril. cu. ft.	.17	.22	.45	1.59	1.98	2.46	2.59	2.86	2.51	1.94	1.71 (NA)
Marketed production ²	Tril. cu. ft.	21.92	22.65	20.11	20.18	19.96	18.52	16.82	18.23	17.20	16.79	17.15
Drawn from storage	Tril. cu. ft.	1.46	1.53	1.76	1.97	1.93	2.16	2.27	2.10	2.40	1.84	1.98
Imports ³	Tril. cu. ft.	.82	1.03	.95	.98	.90	.93	.92	.84	.95	.75	.99
Consumption, total	Tril. cu. ft.	21.14	22.05	19.54	19.88	19.40	18.00	16.84	17.95	17.28	16.22	16.68
Residential	Tril. cu. ft.	4.84	4.88	4.92	4.75	4.55	4.63	4.38	4.56	4.43	4.31	4.37
Commercial ⁴	Tril. cu. ft.	2.40	2.60	2.51	2.61	2.52	2.61	2.43	2.52	2.43	2.32	2.29
Industrial	Tril. cu. ft.	9.25	10.18	8.86	8.20	8.06	6.94	6.62	7.23	6.87	6.50	6.68
Lease and plant fuel	Tril. cu. ft.	1.40	1.50	1.40	1.03	.93	1.11	.88	1.08	.97	.92	.94
Other Industrial	Tril. cu. ft.	7.85	8.69	6.87	7.17	7.13	5.83	5.64	6.15	5.80	5.58	5.73
Electric utilities	Tril. cu. ft.	3.93	3.68	3.16	3.68	3.64	3.23	2.91	3.11	3.04	2.60	2.84
Transportation ⁵	Tril. cu. ft.	.72	.73	.58	.63	.64	.60	.49	.53	.50	.49	.50
Extraction losses ⁶	Tril. cu. ft.	.91	.92	.87	.78	.77	.76	.79	.84	.82	.80	.82
Exports	Tril. cu. ft.	.07	.08	.07	.05	.06	.05	.06	.06	.06	.06	.06
Additions to storage ⁷	Tril. cu. ft.	1.86	1.97	2.10	1.95	2.23	2.47	1.82	2.30	2.18	1.99	1.96
Unaccounted for gas ⁸	Tril. cu. ft.	.23	.20	.24	.64	.50	.47	.64	.14	.35	.43	.76
World production (dry)	Tril. cu. ft.	37.54	43.15	44.10	53.28	54.71	54.18	54.45	58.80	62.17	(NA)	(NA)
U.S. production (dry)	Tril. cu. ft.	21.01	21.73	19.24	19.40	19.18	17.76	16.03	17.89	16.38	15.98	16.35
Percent of world	Percent	56.0	50.4	43.6	36.4	35.1	32.8	29.4	29.8	26.3	(NA)	(NA)

NA Not available. ¹ Estimated, end of year. Source: 1970-1975, American Gas Association, Arlington, VA. (Copyright); thereafter, U.S. Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, annual.

² Marketed production includes gross withdrawals from reservoirs less quantities used for reservoir repressuring and quantities vented or flared. For 1980 and thereafter, it excludes the nonhydrocarbon gases subsequently removed. ³ Includes imports of liquefied natural gas. ⁴ Includes deliveries to municipalities and public authorities for institutional heating and other purposes.

⁵ Pipeline fuel. ⁶ Volumetric reduction in natural gas resulting from the extraction of natural gas constituents at natural gas processing plants. ⁷ Beginning with 1980, includes liquefied natural gas (LNG) storage in above ground tanks. ⁸ Derived by subtracting the sum of additions to storage, exports and consumption from total supply.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review*, *International Energy Annual*, and *Monthly Energy Review*, March 1988.

No. 1194. LIQUEFIED PETROLEUM GASES—SUMMARY: 1980 TO 1987

[In millions of 42-gallon barrels. Includes ethane]

ITEM	1980	1985	1986	1987	ITEM	1980	1985	1986	1987
Production	561	622	619	638	Consumption	538	584	552	588
At natural gas plants	441	479	466	474	Ethane ¹	164	210	181	178
At refineries	121	143	152	164	Propane ^{1,2}	298	322	303	337
Imports	79	68	88	69	Butane (incl. isobutane) ²	76	52	68	73
Refinery input	65	111	110	111	Stocks, Dec. 31	116	74	103	97
Exports	9	23	15	14					

¹ Reported consumption of ethane-propane mixtures have been allocated 70 percent ethane and 30 percent propane.

² Reported consumption of butane-propane mixtures have been allocated 60 percent butane and 40 percent propane.

Source: U.S. Energy Information Administration, *Petroleum Supply Annual*.

No. 1195. COAL INDUSTRY—ELEMENTS OF STRUCTURAL CHANGE: 1976 AND 1986

[In percent, except as indicated]

ELEMENT	1976	1986	ELEMENT	1976	1986
Number of bituminous coal and lignite mines	6,161	4,203	Percent of U.S. bituminous coal and lignite production accounted for by—		
Number of major coal producers ¹	34	52	Major coal producers ¹	57.4	73.9
Percent of major producers' bituminous coal and lignite production accounted for by—			Foreign-controlled major coal producers ²	1.4	6.4
Independent coal companies	34.7	26.6	Firms producing more than 20 million tons per year	22.0	32.9
Oil and gas companies	32.2	43.9	Eight largest producers	33.6	30.3
Electric utilities	10.8	14.9	Four largest producers	24.6	19.6
Steel companies	8.5	4.5			

¹ Major producers are defined as firms producing 3 million tons or more of bituminous coal and lignite annually. ² Includes foreign company shares of joint ventures. Control is inferred from an ownership interest of more than 50 percent.

Source: U.S. Energy Information Administration, *The Changing Structure of the U.S. Coal Industry, 1976-1986*.

Mining and Mineral Products

NO. 1196. COAL AND COKE—SUMMARY: 1970 TO 1987

[Includes coal consumed at mines. Demonstrated coal reserve base for United States on Jan. 1, 1987, was 476 billion tons. Recoverability varies between 40 and 90 percent for individual deposits; 50 percent or more of overall U.S. coal reserve base is believed to be recoverable. See also *Historical Statistics, Colonial Times to 1970*, series M 93-126.]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987 ¹
COAL²											
Production, total	Mil. sh. tons	613	655	830	824	838	782	896	884	890	917
Value	Mil. dol.	3,882	12,670	20,453	21,755	22,851	20,325	22,949	22,277	21,188	21,171
Bituminous coal and lignite: ³											
Number of mines	5,601	6,168	5,598	5,569	5,363	4,265	4,902	4,547	4,203	(NA)	
Production	Mil. sh. tons	603	648	824	818	834	778	892	879	886	913
Value, total	Mil. dol.	3,774	12,489	20,196	21,514	22,622	20,111	22,949	22,081	20,999	20,992
Average per ton	Dollars	6.26	19.23	24.52	26.29	27.14	25.85	25.51	25.10	23.70	23.00
Exports	Mil. sh. tons	72	66	92	113	106	78	81	93	88	80
Value	Mil. dol.	981	3,259	4,627	5,916	5,991	4,057	4,132	4,485	3,930	3,405
Imports	1,000 sh. tons	36	940	1,194	1,043	742	1,271	1,286	1,952	2,212	1,747
Method of mining:											
Underground	Mil. sh. tons	341	293	338	316	339	300	351	350	360	373
Surface	Mil. sh. tons	272	361	492	507	499	482	544	533	530	544
Percent of total prod	Percent	44.4	55.2	59.3	51.6	59.5	61.6	60.7	60.3	59.5	59.3
Value	Mil. dol.	(Z)	22	30	30	23	43	45	70	80	58
Consumption ⁴	Mil. sh. tons	523	563	703	733	707	737	791	818	804	837
Electric power utilities	Mil. sh. tons	320	406	569	597	594	625	664	694	685	718
Industrial	Mil. sh. tons	187	147	127	128	105	103	118	116	112	112
Productivity average: ⁵											
Daily employment	1,000	140	190	225	226	217	176	178	169	155	(NA)
Days worked	Number	228	232	210	186	196	197	204	204	205	(NA)
Tons per worker:											
Per day	Sh./tons	18.84	14.74	16.32	18.08	18.13	20.98	22.19	23.05	25.44	(NA)
Per year	Sh./tons	4,296	3,420	3,427	3,363	3,497	4,133	4,527	4,702	5,215	(NA)
Production, by State:											
Alabama	Mil. sh. tons	20.6	22.6	26.4	24.5	26.6	23.8	27.1	27.8	25.8	25.0
Illinois	Mil. sh. tons	65.1	59.5	62.5	51.9	60.3	56.8	63.8	59.2	61.9	59.8
Indiana	Mil. sh. tons	22.3	25.1	30.9	29.3	31.8	31.8	37.6	33.3	32.9	34.0
Kentucky	Mil. sh. tons	125.3	143.6	150.1	157.6	150.2	131.2	159.5	152.3	153.9	161.2
Montana	Mil. sh. tons	3.4	22.1	29.9	33.6	27.9	28.9	33.0	33.3	34.0	34.4
Ohio	Mil. sh. tons	55.4	46.8	39.4	37.4	36.5	33.8	39.3	35.6	36.4	35.4
Pennsylvania	Mil. sh. tons	90.2	93.3	93.1	83.5	79.4	69.8	77.5	71.4	71.6	74.3
Virginia	Mil. sh. tons	35.0	35.5	41.0	42.0	39.8	35.0	40.4	40.9	41.2	44.2
West Virginia	Mil. sh. tons	144.1	109.3	121.6	112.8	128.5	115.0	131.0	127.8	129.9	136.7
Wyoming	Mil. sh. tons	7.2	23.8	94.9	103.0	108.4	112.2	130.9	140.7	136.8	146.8
Other States	Mil. sh. tons	44.1	75.9	139.7	148.4	148.9	143.6	155.9	161.3	165.9	165.3
Anthracite production	Mil. sh. tons	8.7	6.2	6.1	5.4	4.6	4.1	4.2	4.7	4.3	4.4
World production	Mil. sh. tons	3,295	3,665	4,173	4,198	4,375	4,402	4,623	4,839	4,959	(NA)
COKE											
Production ⁶	Mil. sh. tons	66.5	57.2	46.1	42.8	28.1	25.8	30.6	28.7	25.6	28.0
Oven coke ⁷	Mil. sh. tons	65.7	56.5	46.1	42.8	28.1	25.8	30.6	28.7	25.5	28.0
Value of product at plant	Mil. dol.	2,193	5,261	6,029	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Coke and breeze	Mil. dol.	1,899	4,807	4,784	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Avg. market value per ton	Dollars	28	84	103	173	115	114	105	103	100	(NA)
Coal carbonized	Mil. sh. tons	96.5	83.6	66.7	61.0	40.9	37.0	44.0	41.1	36.0	37.0
Average value per ton	Dollars	12.47	44.21	56.28	62.88	64.97	59.30	56.57	54.30	50.83	46.55
Yield of coke from coal	Percent	69.1	68.4	69.2	70.1	68.7	69.7	69.4	69.8	70.9	75.9

NA Not available. Z Less than \$500,000. ¹ Preliminary. ² Includes bituminous coal, lignite, and anthracite.

³ All domestic product data for 1970 and 1975 are for mines producing 1,000 short tons or more per year; thereafter, data are for all mines. ⁴ Includes some categories not shown separately. ⁵ Data for 1970 and 1975 are for mines producing 1,000 short tons or more per year; thereafter, for mines producing 10,000 short tons or more. Beginning 1982, includes anthracite. ⁶ Includes beehive coke. ⁷ Prior to 1980, excludes screenings or breeze; thereafter, includes beehive and other nonrecoverable coke-oven operations.

Source: 1970 and 1975, U.S. Bureau of Mines, *Minerals Yearbook*; thereafter, U.S. Energy Information Administration, *Energy Data Reports, Weekly Coal Production; Coal Production, annual; Coke Plant Report, Annual Energy Review, and Quarterly Coal Report*.

NO. 1197. WORLD COAL TRADE: 1975 TO 1986

[In millions of short tons]

COUNTRIES	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986 ¹
Exporting countries, total²												
United States	212.5	210.2	224.7	222.5	254.9	276.0	287.4	291.3	284.2	327.6	364.3	368.4
Australia	66.3	80.0	54.3	40.7	66.0	88.7	106.5	106.5	76.5	81.2	91.9	89.0
South Africa	33.5	34.3	42.3	42.6	44.6	48.6	54.3	44.8	59.9	79.7	96.0	100.2
Soviet Union	3.0	6.6	14.0	17.0	25.7	29.9	32.5	29.9	32.2	40.7	49.1	50.8
West Germany	16.2	14.4	16.0	21.0	17.2	13.8	13.1	11.2	11.5	12.9	10.5	8.1
Canada	12.9	13.0	13.3	15.1	15.3	16.1	17.7	16.4	17.6	26.7	29.7	28.1
Poland	42.4	42.9	43.3	44.2	45.6	34.3	16.8	30.6	39.0	47.1	39.8	37.9
China: Mainland	3.5	.4	.5	.9	1.7	4.2	4.1	5.1	6.2	7.6	8.1	11.0
Importing countries, total³												
Western Europe/Mediterranean	212.5	210.2	224.7	222.5	254.9	276.0	287.4	291.3	284.2	327.6	364.3	368.4
Japan	80.8	80.5	85.9	94.3	107.4	126.9	129.4	126.5	117.1	132.2	146.8	147.3
Eastern Europe	68.5	67.0	67.1	57.5	64.5	75.6	86.0	86.5	81.6	94.5	101.9	99.1
Canada	35.1	35.4	36.8	38.4	40.2	34.8	30.1	37.0	41.2	38.9	42.3	40.3
16.8	16.1	16.9	14.6	19.4	17.4	16.3	17.3	16.2	20.4	16.4	14.7	

¹ Preliminary. ² Includes areas not shown separately. ³ Includes trade with Japan only.

Source: U.S. Energy Information Administration, 1973-1984, *Outlook for U.S. Coal Imports*; thereafter, *Annual Prospects for World Coal Trade*.

Cement, Sand, Gravel—Potash

685

NO. 1198. CEMENT, SAND, GRAVEL, STONE, GYPSUM, LIME, AND PHOSPHATE ROCK: 1970 TO 1985

[See also *Historical Statistics, Colonial Times to 1970*, series M 188-194 and series M 203-204. Lime excludes Puerto Rico]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
Cement production¹	Mil. sh. ton	76.1	69.7	85.5	85.9	76.7	72.9	64.3	71.3	78.7	78.9
Portland	Percent	96.1	95.8	95.2	95.6	95.9	96.2	96.5	95.9	95.8	95.9
Shipments ²	Mil. sh. ton	76.4	70.7	88.0	87.2	77.7	73.0	65.1	71.9	81.2	84.0
Portland	Mil. sh. ton	73.4	67.8	83.8	83.4	74.7	70.2	62.7	68.9	77.9	80.7
Value	Mil. dol.	1,386	2,220	3,623	4,061	3,780	3,666	3,199	3,440	4,020	4,142
Average per ton	Dollar	17.88	31.41	41.17	46.57	50.89	52.20	51.04	49.89	51.52	51.30
Imports	Mil. sh. ton	2.5	3.6	6.6	9.4	5.2	4.0	2.9	4.3	8.8	14.5
Value	Mil. dol.	34	71	191	202	198	151	111	161	294	437
Exports	1,000 sh. ton	123	417	65	149	186	300	201	118	80	98
World production (est.)	Mil. sh. ton	630	774	940	862	977	977	973	1,010	1,045	1,071
Sand and gravel sold³	Mil. sh. ton	944	789	996	979	793	720	621	682	803	830
Value	Mil. dol.	1,116	1,340	2,302	2,427	2,289	2,260	1,998	2,270	2,621	2,812
Stone sold or used by producers	Mil. sh. ton	869	901	1,051	1,101	985	874	791	863	957	1,002
Value	Mil. dol.	1,470	2,120	2,886	3,399	3,405	3,276	3,056	3,475	3,911	4,225
Crude gypsum⁴	Active establishments ⁵	Number	108	110	116	113	114	113	109	111	113
Apparent supply	Mil. sh. ton	15.5	15.1	23.1	22.3	19.7	18.9	17.1	20.8	23.1	24.6
Mined	Mil. sh. ton	9.4	9.8	14.9	14.6	12.4	11.5	10.5	12.9	14.3	14.7
Imports for consumption	Mil. sh. ton	6.1	5.4	8.3	7.8	7.4	7.6	6.7	8.0	8.9	9.9
Exports	1,000 sh. ton	41	75	132	91	88	157	123	117	131	83
Calcined gypsum produced	Mil. sh. ton	8.4	9.2	14.0	14.5	11.8	11.7	11.2	13.9	15.5	16.0
Value	Mil. dol.	132	186	387	442	270	243	196	270	321	367
Gypsum products sold, value⁶	Mil. dol.	353	514	1,248	1,392	1,242	1,196	1,122	1,606	2,274	2,418
Building uses, value	Mil. dol.	323	466	1,171	1,312	1,149	1,099	1,032	1,504	2,162	2,301
Lime:											
Active plants	Number	194	171	155	154	153	150	147	139	129	115
Quantity sold	1,000 sh. ton	19,747	19,133	20,443	20,945	19,010	18,856	14,075	14,867	15,922	15,890
Value	Mil. dol.	286	524	750	862	843	884	696	758	811	809
Per ton	Dollars	14.49	27.38	36.67	41.18	44.34	46.89	49.46	50.96	50.95	51.70
Phosphate rock:											
Mine production	Mil. ton	125.5	187.5	191.2	204.8	231.4	202.5	114.8	138.6	178.7	193.2
P ₂ O ₅ content	Mil. ton	18.6	23.5	23.5	25.4	26.2	26.2	14.8	19.4	23.2	25.2
Marketable production	Mil. ton	38.7	48.8	55.2	56.9	60.0	59.1	41.2	46.9	54.2	56.0
P ₂ O ₅ content	Mil. ton	12.0	15.0	16.9	17.5	18.4	18.0	12.7	14.4	16.4	17.3
Value	Mil. dol.	203	1,122	929	1,046	1,257	1,438	950	1,021	1,182	1,236
Per ton	Dollars	5.25	22.99	16.84	18.38	20.95	24.33	23.04	21.75	21.80	22.05
Imports ⁷	Mil. sh. ton	.14	.04	1.00	.98	.54	.01	.03	.01	.01	.04
Value	Mil. dol.	3.8	1.6	24.4	21.6	12.9	.4	1.3	.4	.3	.7
Per ton	Dollars	27.87	43.83	24.38	22.04	23.99	30.00	38.29	37.90	27.62	46.61
Exports	Mil. sh. ton	11.7	12.3	14.2	15.8	15.7	11.5	10.8	13.2	12.7	10.1
P ₂ O ₅ content	Mil. sh. ton	3.8	4.0	4.5	5.1	5.0	3.6	3.5	4.2	4.0	3.2
Value	Mil. dol.	60.0	429.2	297.4	356.5	431.4	373.2	293.6	327.3	324.8	263.6
Per ton	Dollars	5.11	34.98	20.94	22.56	27.47	32.57	27.06	24.73	25.56	26.18
Consumption, apparent ⁸	Mil. sh. ton	27.2	34.2	40.6	43.8	45.0	38.7	31.7	38.4	46.0	41.4
World production	Mil. sh. ton	93.6	118.6	137.8	145.3	158.9	157.7	140.4	153.5	165.5	161.7

¹ Includes Puerto Rico; excludes Alaska except for imports and exports. ² Includes natural, slag, and hydraulic lime plants, not shown separately, except 1970 excludes slag cement. ³ Represents sand stone and gravel used by producers. ⁴ Excludes byproduct gypsum. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. ⁵ Each mine, plant, or combination mine and plant is counted as one establishment. ⁶ Made from domestic, imported, and byproduct gypsum. ⁷ For consumption; P₂O₅ content not available. ⁸ Amount sold or used plus imports minus exports.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

NO. 1199. POTASH—SUMMARY: 1970 TO 1985

[In thousands of short tons, except value. See also *Historical Statistics, Colonial Times to 1970*, series M 201-202]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
Production of potassium salts (marketable)	4,853	4,576	4,769	4,708	4,756	4,578	3,710	3,053	3,350	2,831
Approximate equivalent K ₂ O	2,729	2,501	2,483	2,453	2,468	2,377	1,986	1,575	1,724	1,428
Value ¹ (mil. dol.)	98.1	223.1	226.5	279.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Sales of potassium salts by producers	4,703	3,819	4,804	5,014	4,701	4,045	3,734	3,252	3,510	2,761
Approximate equivalent K ₂ O	2,729	2,094	2,543	2,632	2,444	2,103	1,987	1,688	1,807	1,395
Value at plant (mil. dol.)	92.4	187.9	226.5	279.2	353.9	328.9	265.6	220.8	241.8	176.4
Per ton (dollars)	19.64	49.19	47.15	55.68	75.28	81.31	71.13	67.80	68.89	78.48
Imports for consumption of potash materials	4,403	6,271	8,556	9,375	9,031	8,712	6,986	8,071	8,781	8,343
Approximate equivalent K ₂ O	2,605	3,797	5,189	5,693	5,481	5,287	4,253	4,894	5,323	5,061
Value (mil. dol.)	94.7	267.2	399.2	520.8	648.0	750.4	575.4	600.6	658.1	499.1
Exports of potash materials	986	1,419	1,577	1,233	1,748	978	1,049	622	922	1,072
Approximate equivalent K ₂ O	544	779	892	700	926	541	572	331	492	565
Value (mil. dol.)	28.5	92.7	88.8	79.5	179.8	107.9	93.2	55.8	85.7	(NA)
Apparent consumption of potassium salts ²	8,140	8,671	11,782	13,156	11,987	11,779	9,671	10,701	11,349	10,032
Approximate equivalent K ₂ O	4,730	5,112	6,840	7,626	6,899	6,849	5,647	6,231	6,638	5,891
World production (marketable), approximate equivalent K ₂ O	20,013	27,269	28,795	28,404	30,707	29,848	27,187	30,232	31,568	31,537

NA Not available. ¹ Derived from reported value of amount sold or used. ² Amount sold or used plus imports minus exports.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

Mining and Mineral Products

NO. 1200. IRON ORE—SUMMARY: 1970 TO 1986

[In millions of long tons, except as indicated. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970*, series M 205-211]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Number of mines	74	67	54	51	49	37	32	27	20	20	20	19
Production 1.....	88.8	78.9	55.8	81.6	85.7	69.6	73.2	35.4	37.6	51.3	48.8	38.8
Lake Superior.....	68.6	66.7	44.0	72.7	77.2	62.3	67.5	31.0	35.6	49.7	47.4	37.6
Northeastern.....	3.5	1.9	2.0	8.9	8.6	7.3	5.7	4.4	2.0	1.6	1.4	1.3
Western.....	14.3	9.6	9.8	—	—	—	—	—	—	—	—	—
Shipments 2.....	87.2	75.7	54.1	83.2	86.2	69.6	72.2	35.8	44.6	50.9	49.4	41.3
Value 2 (mil. dol.).....	942	821.1	1,423	2,401	2,814	2,544	2,915	1,492	1,945	2,248	2,077	1,473
Average price per ton at mine (dol.).....	10.80	21.41	26.32	28.86	32.64	36.56	40.39	41.72	43.61	44.17	42.03	35.63
Stocks, Dec. 31 (at mines).....	18.3	12.3	14.8	12.4	11.3	11.7	12.7	12.1	4.1	5.3	6.0	3.3
Price (Lake Superior ores) Dec. 31:												
Natural ores, basis 51.5%												
Fe (dol./lg. ton).....	10.80	18.50	21.18	22.30	24.56	28.50	32.53	32.53	30.03	30.03	30.03	30.03
Imports for consumption 3.....	44.9	46.7	37.9	33.8	39.8	25.1	28.3	14.5	13.2	17.2	15.8	16.7
Canada.....	23.9	19.1	25.3	19.2	22.6	17.3	18.8	8.3	8.8	11.2	8.6	8.7
Venezuela.....	13.0	13.1	6.2	6.1	4.8	3.6	5.1	1.6	1.3	1.5	2.1	2.3
Brazil.....	2.0	7.5	2.2	4.0	3.1	2.0	1.7	1.0	1.3	2.5	2.5	3.7
Exports.....	480	880	957	845	923	773	948	471	446	529	452	461
Value (mil. dol.).....	5.5	2.5	2.1	4.2	5.1	5.7	5.5	3.2	3.8	5.0	5.0	4.5
Value (mil. dol.).....	68	60	63	137	179	231	245	151	183	239	241	205
World production (est.).....	754	902	828	833	889	877	845	769	729	822	840	848

¹ Includes Southeastern district and byproduct ore, not shown separately.

² Beginning 1976, includes byproduct ore.

³ Includes countries not shown separately.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

NO. 1201. GOLD AND SILVER—SUMMARY: 1970 TO 1987

[See *Historical Statistics, Colonial Times to 1970*, series M 268-269, for mine production]

ITEM	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987, prel.
GOLD										
Ore produced 1.....	1,000 sh. ton..	3,687	9,893	12,729	17,918	24,142	30,497	35,909	60,682	83,271
Production, U.S.	1,000 fine oz....	1,743	970	1,379	1,466	2,003	2,085	2,427	3,739	4,866
Value	Mil. dol.	63	594	634	551	849	752	771	1,377	2,225
World production	1,000 fine oz....	47,522	39,179	41,250	43,105	45,096	46,827	49,184	51,620	52,481
Industrial consumption										
U.S., net.....	1,000 fine oz....	5,973	3,215	3,276	3,423	3,226	3,350	3,247	3,126	3,475
Imports 2.....	Mil. dol.	237	2,750	2,157	1,894	1,977	2,947	2,696	5,894	1,633
Canada.....	Mil. dol.	152	1,234	1,314	1,124	987	1,554	1,555	2,444	867
Soviet Union.....	Mil. dol.	—	88	22	4	—	—	—	154	371
South Africa.....	Mil. dol.	(2)	33	188	38	16	8	—	79	253
Exports.....	Mil. dol.	38	3,648	3,072	1,089	1,326	1,813	1,254	1,819	1,709
Price per fine oz. ³	Dollars	36.4	612.6	459.6	375.9	424.0	360.7	317.7	368.2	448.0
Production:										
Nevada.....	1,000 fine oz....	480	278	525	757	961	1,021	1,276	2,099	2,879
South Dakota.....	1,000 fine oz....	579	268	278	185	310	311	356	(D)	(D)
Utah.....	1,000 fine oz....	408	180	228	175	238	(D)	135	(D)	(D)
SILVER										
Ore produced 1,4.....	1,000 sh. ton..	934	2,936	5,579	6,636	8,658	9,392	5,347	6,425	8,895
Production, U.S.	1,000 fine oz....	45,006	32,329	40,683	40,248	43,431	44,592	39,433	34,220	37,280
Value	Mil. dol.	80	667	428	320	497	363	242	187	261
World production	1,000 fine oz....	300,991	342,804	361,817	371,159	367,711	413,930	422,093	415,625	429,091
Industrial consumption										
U.S., net ⁵	1,000 fine oz....	128,404	124,694	118,670	118,840	116,484	114,841	118,555	118,840	115,271
Imports ²	Mil. dol.	104	1,606	1,028	927	2,124	963	952	798	555
Canada.....	Mil. dol.	64	660	375	303	420	301	288	261	141
Mexico.....	Mil. dol.	9	282	228	205	340	336	251	257	288
Peru.....	Mil. dol.	19	354	273	143	269	197	76	57	48
Exports.....	Mil. dol.	49	1,910	332	209	377	206	161	143	192
Price per fine oz. ^{3,4}	Dollars	1.77	20.63	10.52	7.95	11.44	8.14	8.14	5.47	7.01
Production: ⁴										
Idaho.....	Mil. fine oz....	19.1	13.7	16.5	14.8	17.7	18.9	18.8	11.2	(D)
Arizona.....	Mil. fine oz....	7.3	6.3	8.1	6.3	4.5	4.2	4.9	4.2	3.4
Utah.....	Mil. fine oz....	6.0	2.2	2.9	4.3	4.6	(D)	(D)	(D)	(D)
Colorado.....	Mil. fine oz....	2.9	3.0	3.0	1.9	2.1	2.2	.5	.6	(D)

¹ Represents zero. ² Withheld to avoid disclosure. ³ Less than \$500,000. ⁴ Gold and silver are also produced from base-metal ores and placers. ⁵ 1970, general imports; thereafter, imports for consumption. ³ Selling price. ⁴ Includes gold-silver ore through 1986; silver ore only in 1987. ⁵ Excludes coinage.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1202. LEAD—SUMMARY: 1970 TO 1987

[In thousands of short tons, except as indicated. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports and as noted. See also *Historical Statistics, Colonial Times to 1970*, series M 242-248]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987, prel.
Smelter production of refined primary lead.....	667	636	634	604	546	565	567	436	537	408	412
Domestic ores and base bullion ¹	528	530	584	560	485	507	506	364	459	384	371
Foreign ores and base bullion.....	139	106	50	43	61	58	61	72	79	24	41
Recovery of secondary lead.....	597	658	883	745	707	630	555	698	679	689	783
Imports, general:											
Lead in pigs and bars.....	244	101	211	90	112	101	144	178	147	155	207
Lead in ores and matte.....	112	88	44	49	65	39	52	76	47	96	253
Exports of refined pig lead ²	8	21	12	181	26	56	19	5	28	12	5
Consumption of metal, primary and secondary.....	1,361	1,297	1,497	1,180	1,287	1,185	1,268	1,331	1,266	1,241	1,356
Average price, common lead:											
New York (cents per lb.).....	15.89	21.53	52.64	42.46	36.53	25.54	21.68	25.55	19.07	22.05	35.94
London (cents per lb.).....	13.76	18.73	54.52	41.21	33.30	24.66	19.27	20.12	17.84	18.43	26.99
Mine production of recoverable lead ³	572	621	579	607	491	565	495	356	456	375	343
Value ³ (mil. dol.).....	179	267	610	515	359	289	215	182	174	165	247
World smelter production, primary (est.).....	3,628	3,833	3,811	3,506	3,439	3,539	3,579	3,494	3,736	3,540	3,634
World smelter capacity (estimated).....	5,200	5,200	5,241	5,088	4,824	4,965	5,021	4,889	4,801	4,779	4,845

¹ Excludes lead content of antimonial lead. ² Pigs, bars, and anodes. ³ Includes Alaska.

No. 1203. COPPER—SUMMARY: 1970 TO 1987

[In thousands of short tons, except as indicated. Excludes Hawaii and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970*, series M 235-241]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987, prel.
New (primary) copper produced:										
Mines (from domestic ores).....	1,720	1,413	1,302	1,696	1,284	1,144	1,215	1,219	1,265	1,400
Copper ore produced ¹ (mil. sh. tons).....	258	263	244	306	201	196	189	179	185	245
Average yield of copper (percent).....	.59	.47	.48	.51	.55	.51	.56	.62	.62	.58
Smelters (from domestic ores).....	1,605	1,374	1,096	1,427	1,037	979	1,091	1,035	2,001	1,074
Percent of world total.....	24	17	13	16	12	11	12	11	11	11
Refineries (from domestic ores).....	1,521	1,286	1,241	1,577	1,158	1,134	1,201	1,106	1,183	1,088
From foreign ores, matte, etc., refinery.....	244	157	98	125	194	169	83	59	(D)	(D)
Total new refined, domestic and foreign.....	1,765	1,443	1,339	1,702	1,352	1,303	1,284	1,165	1,183	1,088
Secondary copper produced.....	1,248	972	1,584	1,563	1,309	1,194	1,234	1,256	1,252	1,395
Recovered from old scrap only.....	504	389	676	659	571	495	508	555	528	588
Imports (unmanufactured) ³	392	324	603	474	558	636	573	464	627	590
Refined.....	132	147	471	364	285	507	490	416	553	517
Exports of refined metallic copper.....	221	172	16	27	34	90	101	42	14	10
Stocks (refined), Dec. 31 ⁴	552	489	346	535	766	763	622	393	246	132
Mine production of recoverable copper.....	1,720	1,413	1,302	1,696	1,264	1,144	1,215	1,219	1,265	1,405
Arizona.....	918	813	849	1,147	848	748	823	878	870	859
Montana.....	120	88	42	69	72	37	(D)	17	(D)	(D)
New Mexico.....	166	146	165	170	(D)	(D)	(D)	(D)	(D)	(D)
Utah.....	296	177	174	233	208	187	(D)	(D)	(D)	(D)
Other States.....	220	189	72	77	136	173	393	324	395	546
Avg. price, domestic production (cents per lb.).....	58.2	64.2	102.4	85.1	74.3	79.3	68.2	67.0	66.1	82.5
World smelter production.....	6,719	7,966	8,432	8,820	8,764	8,967	9,264	9,452	9,429	9,748
World smelter capacity.....	(NA)	10,287	11,245	11,419	11,821	12,058	12,095	12,127	12,369	12,787

D Withheld to avoid disclosure of individual company data. NA Not available. ¹ Includes old tailings, smelted or retreated. Not comparable with mine production figures which include recoverable copper content of ores not classified as "copper." ² Includes production from foreign ores. ³ Includes copper imported for immediate consumption plus material entering country under bond. Beginning 1980, includes imports for consumption. Comprises copper in ores and concentrates, matte, refined, blister, and scrap. ⁴ Includes producers, consumers, COMEX and U.S. Government.

Source of tables 1202 and 1203: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1204. COBALT—SUMMARY: 1970 TO 1987

[In millions of pounds of contained cobalt, except price]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Production: Mine.....	.7	—	—	—	—	—	—	—	—	—	—	—
Secondary (scrap) ¹.....	.1	3	1.0	1.2	1.2	1.0	.9	.7	.9	.9	2.6	2.5
Imports ²	12.4	6.6	19.0	20.0	16.3	15.6	12.9	17.2	25.3	17.7	12.9	19.5
Zaire.....	(NA)	2.2	7.9	8.8	6.2	4.2	5.0	7.7	11.8	4.8	.7	9.4
Zambia.....	(NA)	—	2.1	3.5	2.2	1.5	1.2	2.3	3.8	4.3	3.5	2.9
Finland.....	(NA)	1.1	.9	1.2	1.1	1.2	.8	1.0	1.0	1.0	.8	.4
Exports ³	1.5	1.8	1.5	.7	.6	.8	.6	.8	.7	.6	1.0	.6
Consumption.....	19.4	12.8	20.0	17.4	15.3	11.7	9.5	11.3	12.9	13.5	14.4	15.1
Inventories.....	81.0	49.5	45.2	44.2	43.3	42.2	45.1	47.3	47.6	51.3	54.6	55.2
Government ⁴	79.1	47.6	40.8	40.8	40.8	40.8	43.8	45.9	46.2	50.2	53.1	53.1
Private ⁵	1.9	1.8	4.4	3.4	2.5	1.4	1.3	1.4	1.4	1.1	1.5	2.1
Price per pound ⁶ (dollars).....	2.20	3.98	7.6.40	24.58	25.00	14.58	8.56	5.76	10.40	11.43	7.49	6.66

— Represents zero. NA Not available. ¹ Reported consumption of purchased scrap. ² Includes countries not shown separately. ³ Content of unwrought cobalt and cobalt alloys, and waste and scrap. ⁴ Includes cobalt sold but not delivered.

⁵ Consumer stocks only. ⁶ 1970 and 1975 weighted average based on the market price quoted by a major U.S. cobalt dealer; otherwise based on range of prices; 1980-87 weighted average "Metals Week" prices. ⁷ Represents low price for years. Price ranged from low 6.40 lb. to 20.00 per lb.

Source: U.S. Bureau of Mines, *Minerals Yearbook*, and *Mineral Commodity Summaries*, annual.

Mining and Mineral Products

No. 1205. NICKEL—SUMMARY: 1970 TO 1986

[Quantities in thousands of short tons. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970*, series M 231-234]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986, prel.
Mine production	16	17	14	14	15	15	12	3	-	15	6	1
Plant production:												
Primary ¹	16	14	13	11	12	11	10	3	(D)	10	5	1
Secondary ²	49	42	45	44	57	49	52	43	50	55	53	44
Imports (est. nickel content)	156	161	195	240	177	189	209	130	152	177	158	129
Exports (gross weight)	31	30	39	36	51	57	47	57	44	59	51	23
Consumption	156	146	155	181	196	186	145	104	128	187	138	165
Stocks (consumer), Dec. 31	25	35	19	20	20	15	23	19	20	21	21	15
Price per pound ³ (dollars)	1.33	2.20	2.41	2.10	3.20	2.85	2.65	2.24	2.20	2.22	2.26	1.86
World production, est	693	890	913	725	756	859	800	682	735	833	882	834

- Represents zero. D Withheld to avoid disclosing company proprietary data. ¹ From domestic ores. ² Includes nickel recovered from iron and steel scrap. ³ Through 1979, peak price quoted U.S. buyers by International Nickel Co., Inc., for electrolytic nickel, U.S. duty included, f.o.b. Port Colborne, Ontario; thereafter, New York dealer price.

No. 1206. TIN—SUMMARY: 1970 TO 1987

[In thousands of short tons, except price. See headnote, table 1205, for exclusions]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987, prel.
Production: Domestic smelters	(D)	7.2	5.1	3.3	2.2	3.9	2.8	4.4	3.3	3.5	4.3
Secondary sources	22.4	17.5	23.7	20.5	17.0	15.8	15.7	17.0	15.6	18.4	17.4
Imports for consumption:											
Metal	56.7	48.9	53.3	50.7	50.6	30.8	37.5	45.4	37.3	39.4	45.4
Ore (tin content)	5.2	7.1	5.0	.9	.3	2.2	1.1	3.6	1.8	4.3	3.3
Exports	5.0	4.0	3.8	1.7	1.2	1.6	1.1	1.6	1.6	1.7	1.5
Price of Straits tin at NY, dol. per lb. ²	1.74	3.40	7.54	8.46	7.33	6.54	6.55	6.24	5.86	3.83	4.19
Consumption	83	62	69	62	60	51	50	54	48	48	48
World mine production, est	256	245	270	270	278	242	217	219	208	199	202

D Withheld to avoid disclosure of individual company data. ¹ Excludes reexports. ² See footnote 5, table 1181.

No. 1207. TUNGSTEN CONCENTRATE—SUMMARY: 1970 TO 1987

[Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series M 225-226, for related data]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987, prel.
Production:											
Concentrates (60% WO ₃ basis) ¹	1,000 sh. ton....	10.1	5.8	6.3	8.2	3.6	(NA)	(NA)	(NA)	(NA)	(NA)
Tungsten content	Mill. lb.....	9.3	5.5	6.0	7.8	3.5	2.2	2.6	2.2	1.7	.1
Shipments from mines:											
Reported value (f.o.b. mines)	Mill. dol.....	23.8	29.1	50.6	62.2	22.1	10.5	13.4	9.1	5.8	.2
Avg. value per lb. of tungsten	Dollars	2.55	5.30	8.38	7.96	6.35	4.70	5.20	4.23	3.21	2.88
Imports for consumption ²	Mill. lb.....	3.13	6.9	11.4	11.8	7.8	6.3	12.8	10.5	5.6	.93
Consumption ²	Mill. lb.....	16.7	14.0	20.4	21.7	9.9	11.4	18.9	15.1	10.6	12.1
Stocks ² and of year	Mill. lb.....	2.2	2.5	1.4	1.7	4.0	2.5	2.2	2.5	1.2	.8
World production ²	Mill. lb.....	71.4	84.5	114.6	110.8	103.7	90.2	101.7	102.5	94.0	88.7

NA Not available. ¹ A short ton of 60% tungsten trioxide (WO₃) contains 951.72 pounds of tungsten.

² Tungsten content.

³ General imports.

Source of tables 1205-1207: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1208. URANIUM CONCENTRATE (U₃O₈) INDUSTRY—SUMMARY: 1975 TO 1986

[Middle demand case. See table 961. See also *Historical Statistics, Colonial Times to 1970*, series M268-267]

ITEM	Unit	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Production	1,000 sh. tons ...	11.6	14.9	18.5	18.7	21.9	19.2	13.4	10.6	7.4	5.6	6.8
Net imports (U ₃ O ₈)	1,000 sh. tons ...	.2	.8	-.8	-1.6	-1.1	-1.1	6.3	2.4	5.2	3.2	6.0
Utility inventories (U ₃ O ₈ equivalent)	1,000 sh. tons ...	(NA)	21.5	35.6	42.8	54.4	64.0	68.6	75.0	280.1	268.3	266.2
Price (1983 dol./lb. U ₃ O ₈):												
Long-term contract price	Dollars	36.50	46.40	45.30	43.10	35.50	29.40	25.90	27.20	22.60	21.20	16.50
Spot market price	Dollars	40.80	65.20	62.20	56.40	38.80	26.80	20.80	23.00	16.50	14.60	15.50
Delivered price	Dollars	18.10	30.50	31.10	31.80	34.20	35.70	41.60	38.20	31.30	28.80	27.30
Capital expenditures (1983 dollars)	Mill. dol.....	481	1,159	1,060	949	481	173	67	37	32	25	
Mining and milling	Mill. dol.....	251	760	617	842	625	300	96	30	12	14	5
Exploration	Mill. dol.....	210	399	452	418	324	161	77	37	25	18	20
Employment	1,000	9.7	18.8	21.4	22.8	19.8	13.7	9.1	5.8	2.9	1.9	1.6
Mining and milling	1,000	7.6	14.8	17.0	18.1	18.5	11.4	8.3	5.2	2.7	1.7	1.4
Exploration	1,000	2.0	4.1	4.4	4.1	3.4	2.3	.8	1.4	.2	.2	.2

NA Not available. ¹ Natural U₃O₈ only. ² Includes natural U₃O₈ (uranium oxide), natural UF₆ (uranium hexafluoride), natural UF₄ under usage agreement, UF₆ at enrichment suppliers, enriched UF₆ and fabricated fuel. ³ Average U.S. contract prices and market price settlements.

Source: U.S. Department of Energy, *Domestic Uranium Mining and Milling Industry*, annual, and *Uranium Industry*, annual.

No. 1209. ZINC—SUMMARY: 1970 TO 1987

[Production in thousands of short tons. Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series M 249-250, for production]

ITEM AND STATE	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987, prel.
Smelter production, primary slab zinc.....	878	438	448	521	375	382	252	260	279	288	279	298
Value (mil. dol.).....	236	341	278	389	281	341	194	215	271	232	212	250
From domestic ores.....	404	308	295	281	256	286	213	232	218	218	211	233
From foreign ores.....	474	130	154	240	120	96	38	28	61	70	69	64
Production, redistilled secondary slab zinc.....	77	58	38	59	32	55	82	76	88	80	89	80
Avg. price of common zinc (cents per lb.)...	15.3	39.0	31.0	37.3	37.4	44.6	38.5	41.4	48.6	40.4	38.0	41.9
World smelter production, est.....	5,321	5,626	6,483	6,900	6,688	6,708	6,497	6,888	7,194	7,544	7,478	7,600
World smelter and refining capacity.....	(NA)	(NA)	8,487	8,524	(NA)	(NA)	(NA)	8,529	8,600	8,700	9,046	9,200
Mine production, recoverable zinc.....	534	469	334	295	350	344	334	303	279	250	224	239
Colorado.....	57	48	24	11	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Idaho.....	41	41	36	33	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	51	75	65	68	69	58	70	63	50	54	42	39
New York.....	59	77	29	13	37	41	58	63	63	(D)	(D)	(D)
Tennessee.....	118	83	97	94	123	130	134	121	126	115	113	128
Other States	208	145	83	76	75	116	72	56	101	81	69	72

D Withheld to avoid disclosure of individual company data. NA Not available. Z Less than 500 tons.

Source: U.S. Bureau of Mines, *Minerals Yearbook*, and *Mineral Facts and Problems*.

No. 1210. BAUXITE—SUMMARY: 1970 TO 1987

[See also *Historical Statistics, Colonial Times to 1970*, series M 256-257]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Production:												
Crude ore.....	Mil. lg. ton.....	2.5	2.2	2.2	1.8	1.8	.9	.8	1.0	.8	.6	.7
Dried bauxite.....	Mil. lg. ton.....	2.1	1.8	1.8	1.5	1.5	.7	.7	.8	.7	.5	.6
Value.....	Mil. dol.....	30.1	25.1	24.9	22.4	26.5	12.3	11.3	15.6	12.9	10.4	10.9
Imports ¹ (crude, dried).....	Mil. lg. ton.....	13.6	11.5	13.6	13.9	12.6	10.0	7.5	9.3	7.0	6.4	9.0
Jamaica.....	Mil. lg. ton.....	7.5	5.4	6.4	6.0	5.4	4.1	3.1	3.7	1.5	2.1	2.8
Guinea.....	Mil. lg. ton.....	.5	2.6	3.9	4.0	3.6	4.3	3.7	3.7	3.7	3.3	4.1
Suriname.....	Mil. lg. ton.....	2.9	1.9	1.5	1.3	1.1	.4	.2	.3	.2	.1	.1
Value.....	Mil. dol.....	(NA)	(NA)	380.5	392.6	360.4	226.8	310.9	210.1	186.6	233.6	
Exports (as shipped).....	1,000 lg. ton	3	19	24	28	40	48	78	81	55	68	198
Value.....	Mil. dol.....	.2	1.7	3.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Consumption (dry equivalent).....	Mil. lg. ton.....	15.7	12.4	15.4	15.7	13.3	9.1	9.0	10.4	8.1	6.8	9.4
World production, est.....	Mil. lg. ton.....	56.9	73.6	84.2	87.8	84.0	78.1	77.4	86.4	83.0	84.6	85.0

NA Not available. ¹ Includes countries not shown separately.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1211. ALUMINUM—SUMMARY: 1970 TO 1987

[See also *Historical Statistics, Colonial Times to 1970*, series M 258-262]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987 ¹
Production.....												
Primary aluminum.....	Mil. sh. ton.....	4.8	4.9	6.4	6.5	6.4	5.2	5.4	6.4	5.8	5.3	5.9
Plant capacity.....	Mil. sh. ton.....	4.0	3.9	5.0	5.1	4.9	3.6	3.7	4.5	3.9	3.3	3.7
Secondary aluminum ²	Mil. sh. ton.....	4.3	5.0	5.3	5.5	5.5	5.5	5.5	5.4	5.2	4.5	4.3
Primary aluminum.....	Mil. sh. ton.....	.8	1.0	1.4	1.4	1.5	1.6	1.7	1.9	1.9	2.0	2.2
Price (cents per lb. ⁴).....	Bil. dol.....	2.6	3.7	7.8	9.3	9.8	8.0	8.5	10.4	9.3	8.6	8.5
Secondary aluminum ³	Mil. sh. ton.....	2.2	3.0	6.1	7.3	7.5	5.5	5.8	7.3	6.2	5.4	5.3
Imports for consumption ⁵	1,000 sh. ton	468	550	840	713	935	968	1,203	1,628	1,565	2,168	2,039
Value.....	Bil. dol.....	.2	.4	1.0	1.0	1.4	1.3	1.6	2.5	2.0	2.7	2.9
Exports ⁶	1,000 sh. ton	612	440	773	1,483	867	824	855	809	1,001	830	1,010
Value.....	Bil. dol.....	.4	.4	1.1	2.4	1.5	1.2	1.3	1.3	1.3	1.2	1.6
Shipments ⁷ (net domestic).....	Mil. sh. ton.....	4.5	4.6	6.9	6.1	6.2	5.6	6.4	7.2	7.0	7.2	7.6
World production, est.....	Mil. sh. ton.....	10.6	13.4	16.0	17.0	16.8	14.8	15.3	17.3	16.9	16.9	17.7
World plant capacity.....	Mil. sh. ton.....	12.0	16.4	19.4	18.7	19.0	19.2	19.5	20.1	19.9	19.7	19.7

¹ Preliminary. ² Recoverable aluminum content from scrap, old and new. ³ Calculated based on published prices for primary metal. See footnote 4. ⁴ 1970 and 1975, average aluminum price, from *American Metal Market*; 1979-1985, U.S. producer prices, from *Metals Week*; thereafter, U.S. market price, from *Metals Week*. ⁵ Based on 7 months. ⁶ Crude and semicrude (including metal and alloys, plates, bars, etc., and scrap). ⁷ Compiled by Aluminum Association from data on net shipments of aluminum and mill products. Includes changes in aluminum industry and government inventories and net trade.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

Mining and Mineral Products

NO. 1212. MAGNESIUM—SUMMARY: 1970 TO 1987

[In thousands of short tons, except as indicated. Magnesium metal is used primarily in the manufacturing of aircraft, automotive, and other types of transportation equipment, material-handling equipment, power tools, and alloying with other metals]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987 ¹
Production (domestic).....	124	148	200	209	200	145	161	207	196	185	187
Primary ²	112	120	162	189	154	102	115	159	150	138	137
Secondary (recovered from scrap).....	12	28	37	40	46	43	46	48	46	46	50
Exports.....	36	33	54	57	35	40	47	48	40	44	49
Imports.....	22.5	48.2	113.8	127.7	90.8	104.8	124.7	136.7	113.6	122.4	130.7
Value (mil. dol.).....	3	8	5	4	7	5	6	9	9	9	12
Consumption.....	2.5	11.5	9.0	8.3	17.6	15.8	16.3	25.7	25.1	24.6	31.0
Castings and wrought products.....	93	94	108	96	91	75	82	90	84	77	93
Alloys (aluminum).....	37	47	61	54	51	40	46	49	41	41	56
Other.....	33	28	29	24	25	21	21	27	26	18	19
Price per pound (cents).....	35	82	101-108	107-125	125-134	134	138	143-148	148-153	153	153
World production (primary).....	242	258	339	348	340	280	286	360	362	359	380

¹Preliminary. ²For 1975-1980, figures are the difference between total North American production reported by the International Magnesium Association and Canadian production.

³Estimated.

NO. 1213. PLATINUM-GROUP METALS—SUMMARY: 1970 TO 1987

[In thousands of troy ounces, except as indicated. The platinum group is comprised of six closely related metals. The metals commonly occur together in nature and are among the rarest of the metallic elements. The metals are refractory, are chemically inert toward a wide variety of materials even at high temperatures; are used as catalysts in the chemical, petroleum refining, and automotive industries, and as corrosion-resistant materials in the chemical, electrical, glass, and dental-medical industries]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987 ¹
World mine production, total ²	4,239	5,714	6,487	6,848	6,931	6,424	6,525	7,653	7,941	8,314	8,671
United States.....	17	19	7	3	7	8	6	15	(D)	(D)	(D)
Soviet Union.....	2,206	2,650	3,200	3,250	3,350	3,500	3,600	3,700	3,800	3,850	3,900
South Africa.....	1,503	2,600	3,017	3,100	3,110	2,600	2,600	3,500	3,700	3,900	4,220
Primary refined.....	21	17	8	3	7	9	9	24	7	4	6
Secondary refined.....	350	270	309	331	392	344	303	340	259	354	165
Imports.....	1,411	1,820	3,479	3,502	2,850	2,494	3,218	4,474	3,990	4,477	3,807
Value (mil. dol.).....	105	273	841	1,177	800	554	753	1,118	1,026	1,347	1,240
Exports.....	414	660	900	765	863	838	1,229	1,162	889	751	708
Consumption ³	43	88	202	341	302	182	310	275	187	202	225
Industry stocks, Jan. 1.....	1,331	1,309	2,756	2,206	1,921	1,873	1,914	2,204	2,271	2,080	1,944
Producer price per troy ounce (dol.):											
Platinum.....	133	164	352	439	475	475	475	475	519	600	600
Palladium.....	38	93	113	214	130	110	130	147	127	131	150
Rhodium.....	216	338	733	766	641	600	600	625	915	1,196	1,239
Iridium.....	156	477	257	505	600	600	600	600	600	800	532
Ruthenium.....	53	60	45	45	45	45	45	45	(4)	(4)	(4)
Osmium.....	215	200	150	150	150	137	110	(9)	(9)	(9)	(9)

D Withheld to avoid disclosing company proprietary data.

¹Preliminary. ²Includes countries not shown separately.

³Reported sales to consumers.

⁴Price suspended June 7, 1984.

⁵Price suspended Jan. 13, 1984.

NO. 1214. TITANIUM—SUMMARY: 1970 TO 1987

[In 1985, approximately 63 percent of the titanium metal was used in jet engines, airframes, and space and missile applications; approximately 20 percent was used in the chemical processing industry, power generation, and in marine and ordnance applications; and 17 percent in steel and other alloys]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987 ¹
Ilmenite concentrate:												
Mine shipments.....	1,000 sh. ton..	821	702	646	584	524	233	(D)	(D)	(D)	(D)	(D)
Value.....	Mil. dol.	16.6	26.5	33.0	32.0	37.0	19.1	(D)	(D)	(D)	(D)	(D)
Imports.....	1,000 sh. ton..	98	122	184	357	236	348	259	410	507	466	339
Value.....	Mil. dol.	1.0	2.1	2.6	6.7	5.9	8.8	9.3	11.1	14.6	16.8	12.0
Consumption.....	1,000 sh. ton..	972	748	791	849	856	583	731	783	756	806	814
Titanium dioxide pigment:												
Production.....	1,000 sh. ton..	655	603	742	727	781	660	780	835	864	931	952
Imports for consumption.....	1,000 sh. ton..	60	26	105	98	125	139	175	194	186	203	192
Apparent consumption.....	1,000 sh. ton..	(NA)	596	837	753	808	741	853	916	985	1,001	1,048
Price, Dec. 31:												
Anatase.....	Cents/lb.....	26	39	53	57	69	69	69	69	72	77	77
Rutile.....	Cents/lb.....	26-27	44	59	63	75	75	75	75	78	82	82
World production:												
Ilmenite concentrate.....	1,000 sh. ton..	3,109	3,194	3,910	4,107	4,021	3,339	2,954	2,837	2,897	2,741	2,4067
Titanium slag.....	1,000 sh. ton..	853	832	842	1,313	1,245	1,157	1,160	1,260	1,410	1,417	1,472
Rutile concentrate, natural ²	1,000 sh. ton..	460	422	390	480	398	373	348	376	411	433	496

D Withheld to avoid disclosing company proprietary data.

NA Not available.

¹Preliminary.

²Excludes U.S. produc-

tion.

No. 1215. CHROMITE—SUMMARY: 1970 TO 1987

[In thousands of short tons, except as indicated]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Imports for consumption ¹	1,405	1,252	1,024	982	898	507	190	305	414	488	540
Value (mil. dol.)	31.8	60.7	55.6	56.5	49.9	29.7	10.4	15.5	20.2	21.7	23.8
South Africa	407	289	353	405	482	277	144	235	301	341	276
Soviet Union	248	349	250	170	111	34	(2)	—	22	21	21
Philippines	210	210	194	138	145	70	13	48	41	19	16
Exports	41	139	27	6	71	8	11	55	101	92	1
Reexports	73	45	28	44	67	57	5	4	4	1	5
Consumption, total	1,403	881	1,214	977	889	558	320	512	560	427	556
Metalurgical industry	912	532	774	577	503	283	64	226	273	2,377	2,505
Refractory industry	278	183	198	160	148	80	72	97	65	50	50
Chemical industry	213	166	242	240	238	195	184	189	222	(2)	(2)
Stocks, Dec. 31 (consumer)	733	952	907	675	728	546	456	327	300	314	364
World production ¹	6,672	9,136	10,277	10,915	10,018	9,231	9,050	10,777	11,658	12,327	12,222
South Africa	1,573	2,288	3,634	3,763	3,164	2,680	2,718	3,756	4,077	4,307	4,175
Soviet Union	1,930	2,290	2,535	3,200	3,200	3,240	3,240	3,240	3,240	3,470	3,470
Philippines	624	573	613	547	484	355	294	288	300	202	190

¹ Represents zero. Z Fewer than 500 short tons. ² Includes countries not shown separately. ³ For 1986-87, chemical industry included with metallurgical industry.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1216. FERROALLOYS—SUMMARY: 1970 TO 1987

[Domestic production data for ferroalloys are developed by the Bureau of Mines by means of monthly and annual surveys. Ferroalloy is defined as an alloy of iron and contains a sufficient amount of one or more chemical elements to be useful as an agent for introducing these elements into molten metal, usually steel. The major consumers of ferroalloys are the steel and ferrous foundry industries; see tables 1298-1301.]

ITEM	QUANTITY (1,000 sh. tons)						VALUE (mil. dol.)					
	1970	1975	1980	1985	1986	1987, prel.	1970	1975	1980	1985	1986	1987, prel.
Domestic shipments¹	2,489.6	1,768.1	1,486.1	941.7	854.6	(NA)	548.1	906.7	1,129.9	699.2	664.8	(NA)
Ferromanganese ²	807.4	556.1	194.3	156.6	111.6	(NA)	134.5	222.5	98.6	100.9	90.9	(NA)
Silicromanganese	173.0	126.4	161.6	(3)	(3)	(3)	32.0	53.9	70.3	(3)	(3)	(3)
Manganese metal	(NA)	22.1	(NA)	(3)	(3)	(3)	(NA)	(NA)	(NA)	(3)	(3)	(3)
Ferrosilicon	659.2	709.9	681.4	404.7	371.3	375.0	136.2	321.5	442.6	190.4	218.4	(NA)
Silicon metal	97.7	131.1	124.5	121.6	126.1	140.5	(NA)	(NA)	(NA)	157.2	148.8	(NA)
Chromium alloys	370.9	223.5	237.5	108.5	115.7	126.5	126.3	177.5	179.9	97.7	87.6	(NA)
Ferrocolumbium	1.4	.5	1.3	(6)	(6)	(6)	9.4	3.5	34.5	8.8	(D)	(D)
Ferrophosphorus	176.1	96.0	85.4	54.9	53.8	(NA)	6.5	10.9	13.1	7.9	7.2	(NA)
U.S. exports	(NA)	(NA)	155.5	106.0	89.7	(NA)	(NA)	(NA)	173.8	135.3	115.2	(NA)
Ferroalloys	151.1	97.4	128.5	98.5	72.8	(NA)	55.7	58.9	93.1	63.4	39.2	(NA)
Metals ¹	(NA)	(NA)	27.0	7.5	10.8	15.1	(NA)	(NA)	80.7	71.9	76.0	115.3
Silicon	(NA)	(NA)	14.4	2.1	5.4	9.3	(NA)	(NA)	65.5	61.6	65.2	106.2
Manganese	3.0	3.3	12.3	5.2	5.1	5.8	2.0	3.3	11.5	7.2	7.9	9.7
U.S. imports	(NA)	927.3	1,149.1	1,131.2	1,314.2	1,228.7	(NA)	482.9	643.7	600.5	641.3	642.6
Ferroalloys ¹	385.5	913.6	1,115.9	1,066.9	1,259.2	1,123.7	60.5	466.0	585.9	488.4	544.6	436.0
Manganous alloys	305.5	451.9	683.5	532.7	594.5	559.1	33.3	151.4	240.8	155.9	179.4	172.1
Ferrosilicon	22.4	70.4	71.2	155.4	223.0	230.7	4.1	42.0	42.6	74.0	100.6	108.7
Chromium alloys	41.3	322.9	302.3	335.0	397.6	333.9	9.6	192.7	155.8	158.6	178.4	155.2
Metals ¹	(NA)	13.7	33.2	64.3	55.0	50.2	(NA)	16.9	57.8	112.0	96.6	108.0
Silicon	(NA)	7.7	21.3	51.8	40.9	36.9	(NA)	6.2	21.4	83.4	65.2	74.3
Chromium	1.9	1.6	4.1	4.0	4.5	4.4	3.1	6.6	28.4	19.6	21.6	24.1
Manganese	1.3	4.4	7.9	8.6	9.7	8.9	.5	4.0	8.0	9.1	9.8	9.6

D Withheld to avoid disclosure of individual company data. NA Not available. ¹ Includes other not shown separately.

² Includes fused-salt electrolytic low and medium-carbon ferromanganese.

³ Included with ferromanganese.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1217. BERYLLIUM—SUMMARY: 1970 TO 1987

[In short tons, except as indicated] Represents beryllium mineral concentrates. Beryllium has great stiffness, (exceeding that of other metals, including steels), useful heat dissipation properties, a very high strength-to-weight ratio, useful nuclear moderating and reflecting properties, and excellent corrosion resistance. Its major use is as a beryllium-copper alloy in communications, computers, switching, and other electronic and electrical applications.]

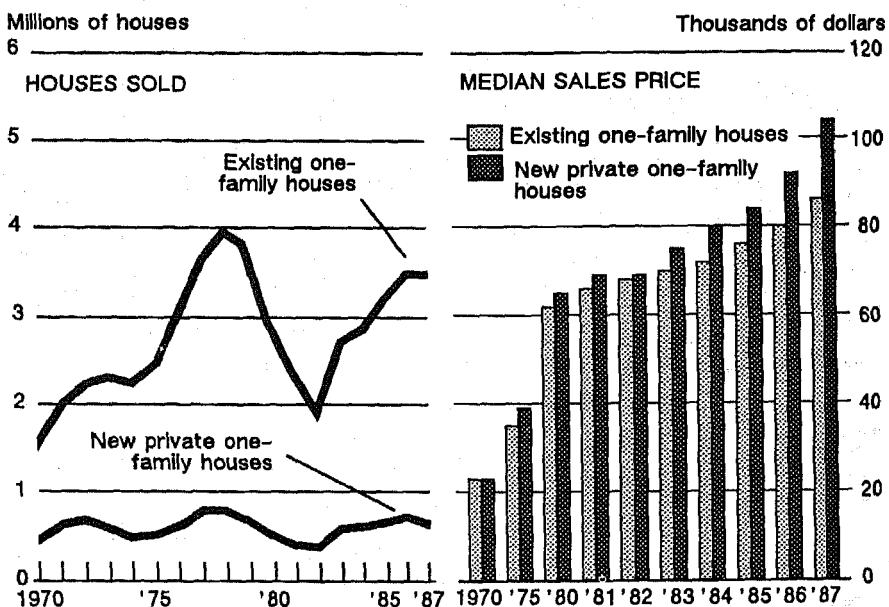
ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Imports for consumption	4,942	1,479	1,037	1,703	2,138	2,652	2,194	1,332	1,646	1,510	2,302
Consumption ¹	9,496	4,850	9,518	8,508	8,141	5,387	6,989	9,003	(NA)	(NA)	84
Price, per short ton unit BeO ² (dollars)	35	32	47	69	94	121	126	88	87	88	84
Year-end stocks ³	5,698	3,546	835	1,350	2,223	5,112	7,037	5,653	(NA)	(NA)	(NA)
World production of beryl	6,857	3,290	2,642	10,272	10,609	9,003	9,950	9,850	8,984	9,897	9,480

NA Not available. ¹ Includes bertrandite ore which was calculated as equivalent to beryl containing 11% BeO.

² Approximate.

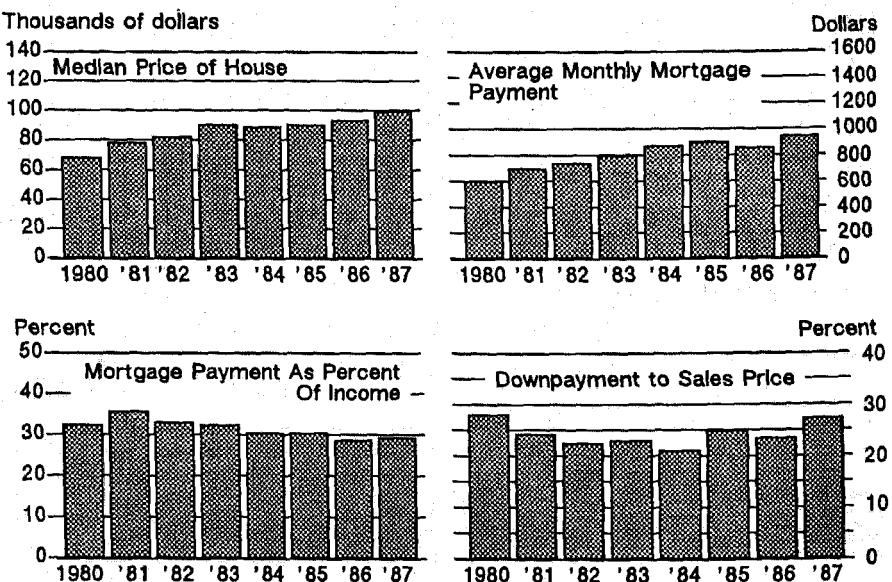
Source: U.S. Bureau of Mines, *Minerals Yearbook*.

Figure 26.1

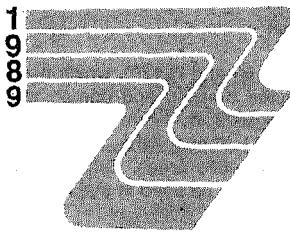
Houses Sold and Sales Price: 1970 to 1987

Source: Chart prepared by U.S. Bureau of the Census. For data see tables 1232, 1233 and 1235.

Figure 26.2

Recent Home Buyers-General Characteristics: 1980 to 1987

Source: Chart prepared by U.S. Bureau of the Census. For data see table 1254.



Section 26

Construction and Housing

This section presents data on the construction industry and on various indicators of its activity and costs; on housing units and their characteristics and occupants; on public housing; on mortgages; and on commercial buildings.

The principal source of these data is the U.S. Bureau of the Census, which issues a variety of current publications. Construction statistics compiled by the Bureau appear in its monthly *Current Construction Reports* series with various quarterly or annual supplements; *Housing Starts* and *Housing Completions* present data by type of structure and by 4 major census regions; *New One-Family Houses Sold and For Sale* also provides statistics annually on physical and financial characteristics for all new housing by the 4 major census regions; *Value of New Construction Put in Place* includes monthly composite construction cost indexes; *Price Index of New One-Family Houses Sold* presents quarterly figures and annual regional data; and *Housing Units Authorized by Building Permits* covers approximately 17,000 permit-issuing jurisdictions in the United States. Statistics on expenditures by owners of residential properties are issued quarterly and annually in *Expenditures for Residential Upkeep and Improvements*. Reports of the censuses of construction industries (see below) are also issued on various topics.

Other Census Bureau publications include the *Current Housing Reports* series, which comprises the quarterly *Housing Vacancies*, the quarterly *Market Absorption of Apartments*, the American Housing Survey (formerly Annual Housing Survey) and reports of the censuses of housing and of construction industries. *Construction Review*, published quarterly by the International Trade Administration, U.S. Department of Commerce, contains many of the census series and other construction statistics series from the Federal Government and private agencies.

Other sources include the monthly *Dodge Construction Potentials* of F. W. Dodge Division, McGraw-Hill Information Systems Company, New York, NY, which presents State data on construction contracts; the National Association of Home Builders with State-level data on housing starts; the NATIONAL ASSOCIATION OF REALTORS, which presents data on existing home sales; the Bureau of Economic Analysis, which presents data on residential capital and gross housing product; and the Federal Home Loan Bank Board, the Department of Housing and Urban Development (HUD), and the Veterans Administration, which publish financial data. Data on conventional home mortgages are provided by the Federal Home Loan Bank Board. The Department of Housing and Urban Development provides data on the gross flow of long-term mortgage loans in its study, *The Supply of Mortgage Credit, 1970-1979*. Data on mortgages insured by the Federal Housing Administration (FHA) and on VA-guaranteed loans are also presented in this section. The Energy Information Administration provides data on commercial buildings through its periodic sample surveys.

Censuses and surveys.—Censuses of the construction industry were first conducted by the Bureau of the Census for 1929, 1935, and 1939; beginning in 1967, a census has been taken every five years (for years ending in "2" and "7"). The latest reports are for 1982.

The 1982 Census of Construction Industries, in accordance with the 1972 *Standard Industrial Classification Manual* (see text, section 13), defines a construction establishment as a relatively permanent place of business where the usual business activities related to construction are conducted.

From 1850 through 1930, the Bureau of the Census collected some housing data as part of its censuses of population and agriculture. Beginning in 1940, separate censuses of housing have been taken at 10-year intervals. For the 1970 and 1980 censuses, data on year-round housing units were collected and issued on occupancy and structural characteristics, plumbing facilities, value, and rent.

Evaluation studies of the 1950, 1960, 1970, and 1980 censuses estimated the underenumeration of occupied housing units at 2.9 percent, 2.4 percent, 1.7 percent, and 1.5 percent respectively. The missed rate in 1980 for all housing units was 2.6 percent or approximately 2.3 million units, 1 million of which were vacant housing units.

The American Housing Survey (*Current Housing Reports*, series H-150 and H-170), which began in 1973, provided an annual and ongoing series of data on selected housing and demographic characteristics until 1983. In 1984 the name of the survey was changed from the Annual Housing Survey. It is currently based on a biennial national sample and on 11 annual MSA samples. All samples represent a cross section of the housing stock in their respective areas. Estimates are subject to both sampling and nonsampling errors; caution should therefore, be used in making comparisons with 1970 and 1980 census data.

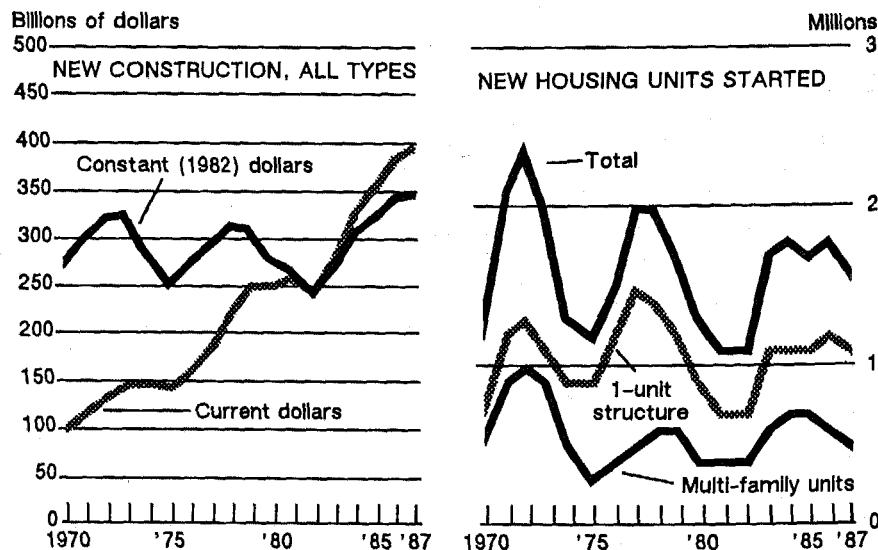
Data on residential mortgages were collected continuously from 1890 to 1970, except 1930, as part of the decennial census by the Bureau of the Census. Since 1973, mortgage status data, which are limited to single family homes on less than ten acres with no business on the property, have been presented in the American Housing Survey.

Housing units.—In general, a housing unit is a group of rooms or a single room occupied or intended for occupancy as separate living quarters; that is, the occupants do not live and eat with any other persons in the structure, and there is either (1) direct access from the outside or through a common hall, or (2) complete kitchen facilities for the exclusive use of the occupants. Transient accommodations, barracks for workers, and institutional-type quarters are not counted as housing units.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

Figure 26.3
Value of New Construction and
Housing Units Started: 1970 to 1987



Source: Chart prepared by U.S. Bureau of the Census. For data see tables 1221 and 1228.

Construction Industries—Materials

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NO. 1218. CONSTRUCTION INDUSTRIES—SUMMARY, BY INDUSTRY: 1982

[Based on a probability sample of about 172,000 construction establishments with payroll in 1982; see Appendix III. N.e.c.=Not elsewhere classified]

INDUSTRY	Estab- lish- ments with payroll (1,000)	EMPLOYEES (1,000)		PAYROLL (mil. dol.)		RECEIPTS (mil. dol.)		Value added ² (mil. dol.)
		Total	Con- struction workers	Total	Con- struction workers	Total	Net construction ¹	
All industries, total.....	456.7	4,275	3,453	76,666	60,175	324,512	233,267	145,965
Contract construction.....	450.8	4,235	3,438	78,097	60,017	321,100	232,005	144,946
General building contractors.....	123.2	994	756	17,049	11,647	117,111	57,567	33,588
Single-family houses.....	72.1	310	253	3,606	2,749	20,129	14,116	7,877
Other residential buildings.....	7.5	63	50	1,078	760	7,953	3,570	1,951
Operative builders.....	14.1	108	53	1,874	710	18,085	8,841	5,492
Industrial buildings and warehouses.....	7.4	154	122	3,231	2,344	18,119	9,294	5,756
Nonresidential buildings, n.e.c.....	22.1	360	278	7,280	5,085	52,825	21,547	12,512
Heavy construction contractors.....	28.2	852	703	19,444	15,359	71,024	54,654	36,060
Highway and street construction.....	10.1	213	180	3,989	3,138	19,035	14,987	8,633
Bridge, tunnel, and elevated highway.....	1.0	38	32	816	665	3,549	2,812	1,468
Water, sewer, and utility lines.....	8.4	187	160	3,576	2,907	12,129	10,452	7,005
Heavy construction, n.e.c.....	7.7	415	329	11,063	8,649	36,310	26,392	18,953
Special trade contractors.....	299.4	2,388	1,979	41,805	39,011	132,965	119,984	75,299
Plumbing, heating, air-conditioning.....	60.2	512	398	9,861	7,477	33,521	26,646	16,360
Painting, paperhanging, decorating.....	24.8	136	121	1,876	1,588	4,688	4,399	3,360
Electrical work.....	39.6	435	352	9,107	7,347	26,441	25,252	15,123
Masonry and other stonework.....	20.2	121	110	1,651	1,344	4,333	4,048	2,867
Plastering, drywall, insulation.....	16.4	200	172	3,573	2,930	10,206	9,215	6,009
Carpentering.....	30.8	133	117	1,612	1,352	5,512	4,759	2,928
Roofing and sheet metal work.....	21.1	191	159	3,035	2,321	10,034	9,315	5,460
Concrete work.....	20.0	157	138	2,310	1,902	8,377	7,447	4,492
Structural steel erection.....	3.7	62	53	1,291	1,056	3,650	3,233	2,376
Excavating and foundation work.....	19.6	136	115	2,152	1,757	8,473	7,337	5,607
Installing building equipment, n.e.c.....	3.8	60	49	1,449	1,145	4,256	3,971	2,952
Special trade contractors, n.e.c.....	25.1	172	136	2,980	1,931	9,379	8,324	5,306
Subdividers and developers, n.e.c.....	5.9	40	15	589	157	3,425	1,263	1,019

¹ Construction receipts less payments for construction work subcontracted to others, not shown separately. ² Total receipts less (a) payments for materials, components, and supplies, (b) payments for construction work subcontracted to others, not shown separately.

³ Includes other industries each with less than \$3.0 billion in total receipts, not shown separately.

Source: U.S. Bureau of the Census, *Census of Construction Industries, 1982*, series CC.

No. 1219. CONSTRUCTION MATERIALS—PRODUCER PRICE INDEXES: 1970 TO 1987

[1982=100, except as noted. For discussion of producer price index, see text, section 15. Covers materials incorporated as integral part of a building or normally installed during construction and not readily removable. Excludes consumer durables such as kitchen ranges, refrigerators, etc. See *Historical Statistics, Colonial Times to 1970*, series N 140-155 for similar data]

COMMODITY	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Interior solvent based paint.....	40.1	60.2	91.3	97.4	100.0	100.0	103.9	107.3	109.8	111.6
Plastic construction products.....	65.5	83.5	103.9	104.3	100.0	110.1	115.5	108.5	106.4	108.4
Douglas fir, dressed.....	40.8	79.6	132.6	117.1	100.0	135.8	123.2	126.5	124.5	125.1
Southern pine, dressed.....	40.1	61.3	104.0	102.0	100.0	111.8	111.9	105.2	104.9	114.1
Millwork.....	41.5	57.4	93.2	97.8	100.0	108.2	110.2	111.7	113.7	117.7
Softwood plywood.....	40.3	71.1	109.5	106.7	100.0	110.0	107.6	107.4	109.4	109.8
Hardwood plywood and related products.....	56.6	66.0	97.5	99.3	100.0	99.3	99.6	89.9	91.0	92.9
Softwood plywood veneer, ex. reinforced/backed.....	(NA)	75.2	126.0	118.9	100.0	103.1	103.3	100.1	105.9	108.4
Building paper and building board mill products.....	42.2	53.1	86.1	96.7	100.0	104.4	108.2	107.4	108.8	111.2
Sheet, coiled, bare, siding.....	58.7	56.2	87.8	99.1	100.0	101.7	113.2	106.2	100.2	(NA)
Tube, drawn, 6000 alloy series.....	35.6	56.5	85.6	94.0	100.0	100.9	109.7	108.7	108.8	111.2
Copper tubing, plumbing.....	(NA)	(NA)	(NA)	115.2	100.0	104.6	105.1	103.6	105.0	(NA)
Builders hardware.....	41.7	58.7	84.9	94.4	100.0	104.8	109.3	113.5	115.8	117.4
Plumbing fixtures and brass fittings.....	39.8	58.2	88.5	96.0	100.0	103.8	108.4	111.8	115.5	119.7
Heating equipment.....	46.6	63.5	87.0	94.5	100.0	102.7	106.8	109.5	113.0	115.5
Metal doors, sash, and trim.....	38.9	55.9	87.8	96.0	100.0	102.8	106.8	107.3	108.9	112.0
Roofing, steel.....	32.4	62.8	87.5	98.3	100.0	(NA)	101.6	100.4	100.0	97.7
Siding, aluminum ¹	(NA)	(NA)	(NA)	(NA)	(NA)	101.3	112.4	110.1	104.8	104.4
Fabricated structural metal for buildings.....	35.0	64.1	86.4	94.7	(NA)	98.8	100.3	103.2	103.9	107.6
Fabricated concrete reinforcing bars.....	(NA)	(NA)	104.2	102.6	100.0	90.8	94.8	94.4	93.3	90.8
Incandescent outdoor.....	34.4	53.0	82.7	92.6	100.0	104.7	109.2	109.2	112.0	117.2
Commercial fluorescent fixtures, recessed non-air.....	51.1	61.0	81.8	93.4	100.0	99.5	103.3	104.6	105.8	104.9
Industrial fluorescent fixtures, general types.....	44.5	59.6	82.5	90.9	(NA)	103.0	108.6	112.5	113.4	111.8
Bright nails.....	31.4	66.1	90.9	97.7	100.0	98.0	99.4	100.2	99.8	101.2
Welded steel wire fabric for concrete reinforcing.....	40.6	(NA)	98.9	98.6	100.0	98.5	101.8	101.3	98.8	98.3
Elevators, escalators, and other lifts.....	42.3	62.0	87.3	92.7	100.0	97.3	97.1	97.7	99.2	100.4
Fans and blowers, except portable.....	34.3	60.5	88.1	95.6	100.0	100.5	103.7	107.1	109.4	110.5
Stamped metal outlet box.....	31.4	(NA)	82.7	91.2	100.0	105.2	114.9	118.7	152.0	180.1
Hard surface floor coverings.....	41.0	60.7	93.3	98.2	100.0	102.8	106.0	110.5	113.4	116.1
Concrete ingredients and related products.....	36.3	55.6	88.4	95.8	100.0	101.1	105.1	108.5	109.4	110.4
Concrete products.....	37.7	57.3	92.0	97.8	100.0	101.4	103.1	107.3	109.2	109.4
Clay construction products exc. refractories.....	42.1	58.0	88.8	95.8	100.0	106.5	110.0	113.5	118.0	121.4
Prep, asphalt and tar roofing and siding products.....	28.8	61.7	105.5	101.6	100.0	94.1	97.7	100.5	98.8	91.9
Other asphalt roofing.....	19.3	45.9	88.8	103.8	100.0	101.4	105.6	105.6	97.8	90.5
Gypsum products.....	38.9	56.2	100.1	100.1	100.0	111.7	135.4	132.3	137.0	125.2
Insulation materials.....	34.6	55.0	80.7	(NA)	100.0	103.7	104.0	105.2	105.7	105.0
Paving mixtures and blocks.....	18.1	44.0	83.7	100.5	100.0	100.9	106.1	111.6	104.9	100.8

NA Not available. ¹ December 1982=100.

Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly and annual; and unpublished data.

Construction and Housing

NO. 1220. PRICE AND COST INDEXES FOR CONSTRUCTION: 1970 TO 1987

[1982=100. Excludes Alaska and Hawaii. Indexes of certain of these sources are published on bases different from those shown here. See *Historical Statistics, Colonial Times to 1970*, series N 118-137, for construction cost indexes on a 1947-49 base]

NAME OF INDEX	1970	1975	1979	1980	1981	1983	1984	1985	1986	1987
Price index for new one-family houses sold ¹	35.1	52.3	80.1	88.8	97.0	102.6	106.3	108.4	111.3	113.7
Dept. of Commerce composite ²	36.5	56.4	80.9	89.7	97.1	102.6	106.4	109.6	111.8	114.3
Federal Highway Admin., composite, Highways ³	38.5	65.9	97.1	111.0	106.7	99.8	105.6	117.2	116.8	117.2
Bureau of Reclamation composite ⁴	37	59	78	87	95	101	103	105	106	107
Turner Construction Co.; Building construction ⁵	40	61	76	84	93	105	111	115	118	122
E.H. Boenck, building cost index: ⁶										
Small residential structures	38.3	57.4	80.7	87.4	92.2	105.9	111.9	115.1	117.3	119.7
Apartments, hotels, and office buildings	38.3	57.1	76.5	83.4	91.6	106.4	111.2	113.0	114.8	117.3
Commercial and factory buildings	36.6	56.2	77.1	84.1	92.2	105.3	109.4	111.3	113.2	115.1
Engineering News-Record: ⁷										
Building construction	37.4	58.5	81.4	87.0	93.9	106.7	108.2	108.7	111.2	113.8
General construction	36.2	57.8	78.5	84.6	92.5	106.3	108.4	109.7	112.3	115.2
Handy-Whitman public utility: ⁸										
Building	37	66	86	95	100	103	107	110	113	115
Electric light and power ⁹	35	60	79	87	95	103	105	107	107	109

¹ Excludes value of site. ² Covers both building and nonbuilding construction, excluding maintenance and repair. Represents a weighted average of various indexes used for different types of construction. ³ Based on average contract unit bid prices for composite mile (involving specific average amounts of excavation, paving, reinforcing steel, structural steel, and structural concrete). ⁴ Derived from the four quarterly indexes which are weighted averages of costs of labor, materials, and equipment for the construction of dams and reclamation projects. ⁵ Eastern cities. Based on firm's cost experience with respect to labor rates, materials prices, competitive conditions, efficiency of plant and management, and productivity. Reflects payment of sales taxes and employee-benefit costs. ⁶ Average of 20 cities for types shown. Weights based on surveys of building costs. Wage rates used for both common and skilled labor. Reflects payment of sales taxes and Social Security payroll taxes. ⁷ Building construction index computed on basis of hypothetical unit of construction requiring 6 bbl. of portland cement, 1,088 M. bd. ft. of 2" x 4" lumber, 2,500 lb. of structural steel, and 68.38 hours of skilled labor. General construction index based on same materials components combined with 200 hours of common labor. ⁸ Based on data covering public utility construction costs for 95 items in 6 geographic regions. Covers skilled and common labor; does not reflect tax payments nor employee-benefit costs. ⁹ As derived by U.S. Bureau of the Census. Covers steam production plants only; excludes hydraulic plants.

Source: U.S. Bureau of the Census. In U.S. Department of Commerce, International Trade Administration, *Construction Review*, bimonthly.

NO. 1221. VALUE OF NEW CONSTRUCTION PUT IN PLACE: 1960 TO 1987

(In millions of dollars. Represents value of construction put in place during year; differs from building permit and construction contract data in timing and coverage. Includes installed cost of normal building service equipment and selected types of industrial production equipment (largely site fabricated). Excludes cost of shipbuilding, land, and most types of machinery and equipment. For methodology, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series N 1-29 and N 65-68)

YEAR	CURRENT DOLLARS				CONSTANT (1982) DOLLARS				Public	
	Total	Private		Public	Total	Private		Public		
		Residential buildings	Nonresidential buildings			Total	Residential buildings			
1960	54,738	38,875	22,975	10,149	15,863	(NA)	(NA)	(NA)	(NA)	
1965	78,474	56,554	30,235	17,995	21,920	276,033	198,783	107,240	77,250	
1968	81,812	57,968	28,611	19,701	23,846	275,956	195,319	96,982	80,637	
1969	83,521	58,144	28,737	19,855	25,377	272,984	189,976	94,872	81,929	
1970	93,183	65,745	34,172	19,402	27,437	288,451	203,456	106,280	59,942	
1971	100,464	72,671	37,214	22,530	27,793	291,289	210,743	108,935	64,348	
1970	101,281	73,374	35,863	22,770	27,908	277,618	202,969	102,285	60,951	
1971	117,904	88,205	48,514	23,872	29,699	302,795	229,096	130,477	58,788	
1972	133,987	103,857	60,693	26,025	30,030	323,535	253,192	152,582	59,959	
1973	147,368	115,020	65,085	29,949	32,348	327,299	257,108	148,976	63,808	
1974	147,763	109,631	55,967	31,325	38,132	285,186	216,796	116,614	56,274	
1975	144,311	102,610	51,581	27,545	41,702	255,670	186,284	98,542	49,037	
1976	182,959	122,064	68,273	27,026	40,889	276,864	210,507	122,513	46,138	
1977	188,048	148,807	92,004	29,693	39,441	295,876	235,366	148,320	47,114	
1978	225,934	178,440	109,838	37,560	47,495	315,895	251,057	154,884	53,610	
1979	252,411	200,720	116,444	49,505	51,690	311,973	250,349	144,450	52,877	
1980	251,719	193,251	100,381	55,431	58,468	280,741	218,813	112,972	63,833	
1981	260,160	203,611	99,241	64,693	56,549	268,055	211,039	102,140	67,758	
1982	246,568	192,855	84,676	59,355	53,713	246,603	192,794	84,645	69,925	
1983	281,268	227,494	125,521	65,675	53,772	274,106	220,729	122,098	63,234	
1984	328,641	270,977	153,849	81,147	57,564	308,765	253,478	144,393	74,767	
1985	355,735	291,665	158,474	95,317	64,070	324,811	286,658	145,804	85,497	
1986	386,093	314,652	187,148	91,171	71,441	345,332	281,756	168,573	79,823	
1987	398,850	323,820	194,772	91,994	75,030	348,995	282,951	171,310	78,183	

NA Not available.

Source: U.S. Bureau of the Census, *Construction Reports*, series C30.

Value of New Construction

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No. 1222. VALUE OF NEW CONSTRUCTION PUT IN PLACE IN CURRENT AND CONSTANT (1982) DOLLARS: 1980 TO 1987

[In millions of dollars, except percent. Represents value of construction put in place during year; differs from building permit and construction contract data in timing and coverage. Includes installed cost of normal building service equipment and selected types of industrial production equipment (largely site fabricated). Excludes cost of shipbuilding, land, and most types of machinery and equipment. For details on derivation of constant values and description of revised series, see source. For description of nature of revisions and deflators used, see *Construction Reports*, series C30-80S. For methodology, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series N 1-29 and N 88-89.]

ITEM	CURRENT DOLLARS					CONSTANT (1982) DOLLARS				
	1980	1984	1985	1986	1987	1980	1984	1985	1986	1987
Total.....	251,719	328,641	355,735	388,093	398,850	280,741	308,765	324,611	345,332	348,995
Average annual percent change ¹	- .3	6.9	8.2	8.5	3.3	-10.0	2.4	5.1	6.4	1.1
Private.....	193,251	270,977	291,665	314,652	323,820	218,813	263,478	286,658	281,756	282,851
Residential buildings ²	100,381	153,849	158,474	187,148	194,772	112,972	144,393	145,804	168,573	171,310
New housing units.....	66,629	113,826	114,662	133,192	139,919	78,379	106,873	105,505	119,990	123,076
1 unit.....	52,921	85,605	86,123	102,154	114,463	59,537	80,362	79,237	92,026	100,888
2 or more units.....	16,708	28,221	28,539	31,038	25,452	18,842	28,510	28,298	27,864	22,408
Improvements.....	30,752	40,023	43,812	53,956	54,857	34,594	37,521	40,282	45,593	48,234
Nonresidential buildings ³	55,431	81,147	95,317	91,171	91,994	63,833	74,767	85,497	79,823	78,183
Industrial.....	13,837	13,745	15,769	13,747	13,707	15,948	12,665	14,145	12,038	11,646
Office.....	13,318	25,840	31,580	28,591	26,430	15,323	23,898	28,331	25,037	22,468
Hotels, motels.....	2,930	6,751	7,301	7,451	7,380	3,373	6,226	6,550	6,522	6,276
Other commercial.....	16,627	22,167	28,048	28,170	29,015	19,153	20,409	25,153	24,660	24,652
Religious.....	1,637	2,132	2,409	2,702	2,753	1,884	1,965	2,159	2,385	2,340
Educational.....	1,243	1,680	1,898	2,943	3,498	1,428	1,530	1,700	2,050	2,922
Hospital, institutional.....	4,046	6,297	5,583	5,422	6,035	4,655	5,811	6,011	4,747	5,130
Miscellaneous.....	1,794	2,455	2,729	2,745	3,238	2,068	2,283	2,448	2,403	2,750
Farm nonresidential.....	5,274	3,181	2,197	2,072	1,863	5,067	2,915	1,973	1,814	1,584
Public utilities.....	30,915	30,915	32,952	31,987	32,580	34,668	29,545	30,884	28,490	29,522
Telephone, telegraph.....	6,733	7,174	7,484	8,445	8,530	7,604	8,818	7,025	7,731	7,613
Other public utilities.....	24,181	23,741	25,468	23,542	24,050	27,064	22,727	23,859	21,759	21,909
Railroads.....	2,319	3,513	4,046	2,891	2,587	2,350	3,431	3,705	2,613	2,533
Electric light, power ⁴	16,048	15,654	15,988	15,392	15,815	18,321	14,848	14,943	14,245	14,442
Gas.....	5,006	4,303	5,182	4,973	5,279	5,505	4,185	4,980	4,634	4,798
Petroleum pipelines.....	809	271	272	286	369	888	263	280	268	335
All other private.....	1,250	1,905	2,726	2,275	2,611	1,273	1,858	2,500	2,058	2,353
Public.....	58,468	57,664	64,070	71,441	75,030	61,928	55,287	57,953	63,576	66,044
Buildings	18,517	17,883	20,114	23,456	25,158	21,259	16,513	18,076	20,564	21,431
Housing, redevelopment.....	1,648	1,636	1,511	1,458	1,519	1,854	1,537	1,392	1,313	1,337
Industrial.....	1,441	1,828	1,988	1,857	1,457	1,680	1,688	1,767	1,450	1,239
Educational.....	8,050	5,557	6,708	8,440	8,838	9,255	5,122	6,014	7,382	7,509
Hospital.....	1,785	2,039	2,017	1,998	2,209	2,053	1,881	1,810	1,750	1,877
Other	5,593	6,822	7,910	9,905	11,136	6,438	6,287	7,094	6,869	9,468
Highways and streets	17,225	18,771	21,540	22,682	22,757	15,792	18,353	18,803	19,598	19,812
Military facilities.....	1,880	2,839	3,235	3,867	4,324	1,924	2,696	2,872	3,383	3,718
Conservation, development.....	5,090	4,654	4,779	4,647	5,161	5,771	4,541	4,587	4,405	4,624
Sewer systems.....	7,171	6,241	7,198	8,105	8,835	8,129	6,086	6,902	7,881	8,258
Water supply facilities.....	3,266	2,621	2,864	3,370	3,602	3,652	2,550	2,551	3,168	3,318
Miscellaneous	5,318	4,654	4,541	5,313	5,194	5,400	4,548	4,162	4,801	4,683
Public ownership:										
State and local government.....	48,827	46,423	52,066	59,030	60,955	(NA)	(NA)	(NA)	(NA)	(NA)
Federal government.....	9,641	11,240	12,004	12,411	14,075	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹Change from immediate prior year. For 1980, change from 1979. Minus sign (-) indicates decrease. For explanation of average annual percent change, see Guide to Tabular Presentation. ²Includes farm residential. ³Excludes building by privately owned public utilities. ⁴Includes construction with Rural Electrification Administration (REA) funds.

Source: U.S. Bureau of the Census, *Construction Reports*, series C30.

No. 1223. VALUE OF PRIVATELY OWNED NONRESIDENTIAL BUILDING PROJECTS, BY CONSTRUCTION STATUS, 1975 TO 1987, AND BY TYPE OF PROJECT, 1987

[In billions of dollars]

CONSTRUCTION STATUS	1975	1980	1981	1982	1983	1984	1985	1986	1987			
									Total	Industrial	Office building	Other commercial
Value of projects—												
Started.....	20.1	48.3	65.8	55.5	63.3	84.7	90.8	89.7	86.3	12.0	25.0	28.8
Completed	28.0	48.4	52.7	56.3	60.3	68.2	82.8	98.3	82.7	13.2	25.8	25.5

¹Privately owned hotels and motels, religious, educational, hospital and institutional, and miscellaneous nonresidential building projects.

Source: U.S. Bureau of the Census, *Construction Reports*, series C30.

Construction and Housing

No. 1224. CONSTRUCTION CONTRACTS—VALUE OF CONSTRUCTION AND FLOOR SPACE OF BUILDINGS,
BY CLASS OF CONSTRUCTION: 1976 TO 1987

[Includes new structures and additions, and major alterations to existing structures which affect only valuation, since no additional floor area is created by "alteration." See also *Historical Statistics, Colonial Times to 1970*, series N 78-100]

YEAR	Total	Residential buildings	NONRESIDENTIAL BUILDINGS									Non-building construction
			Total	Commercial ¹	Manufacturing	Educational ²	Hospital	Public buildings	Religious	Social and recreational	Miscellaneous	
VALUE (bill. dol.)												
1976	110.1	44.2	30.0	10.2	4.5	4.9	4.5	2.1	.9	1.5	1.5	35.9
1977	139.7	62.0	35.3	13.6	5.4	5.2	4.5	2.3	1.0	1.8	1.5	42.6
1978	159.9	74.9	45.0	20.6	9.2	5.7	3.8	1.5	1.2	2.1	.9	39.9
1979	166.4	74.6	50.1	24.4	7.6	6.3	4.8	1.6	1.3	2.6	1.5	43.7
1980	148.4	63.7	52.5	24.8	8.4	6.8	5.3	1.6	1.2	2.7	1.7	32.2
1981	153.5	60.2	60.1	31.7	8.6	5.8	6.4	1.4	1.2	3.0	2.0	33.2
1982	156.2	58.2	59.5	28.2	9.5	6.1	7.8	1.9	1.2	2.8	2.0	37.4
1983	193.6	93.6	62.2	32.7	5.3	6.2	8.6	2.1	1.5	2.8	2.1	37.8
1984	211.5	101.4	74.4	42.1	7.3	7.7	7.2	2.7	1.7	3.3	2.4	35.8
1985	232.3	108.7	83.2	47.8	7.7	8.8	7.8	3.0	2.0	3.6	2.5	40.5
1986	248.6	122.9	83.8	45.8	7.3	10.5	7.9	3.2	2.1	4.2	2.8	42.0
1987	254.7	120.0	89.5	46.5	8.2	11.9	8.7	4.4	2.2	4.4	3.2	45.3
FLOOR SPACE (mil. sq. ft.)												
1976	2,819	1,867	953	440	152	118	71	42	31	45	54	(X)
1977	3,536	2,440	1,097	564	175	112	66	43	32	48	57	(X)
1978	4,101	2,815	1,286	758	219	104	53	22	35	53	42	(X)
1979	3,905	2,528	1,377	816	243	102	57	20	34	53	52	(X)
1980	3,092	1,892	1,201	688	216	95	54	18	28	50	52	(X)
1981	2,797	1,820	1,178	733	187	74	60	14	25	44	41	(X)
1982	2,442	1,497	946	571	119	74	70	19	25	38	30	(X)
1983	3,379	2,849	1,030	647	110	74	83	20	29	36	31	(X)
1984	3,633	2,395	1,238	808	147	90	70	23	29	37	34	(X)
1985	3,822	2,414	1,408	939	159	100	73	26	32	41	38	(X)
1986	3,928	2,578	1,349	869	147	116	73	30	32	43	39	(X)
1987	3,723	2,358	1,366	849	155	126	79	40	33	47	37	(X)

X Not applicable. ¹ Includes nonindustrial warehouses. ² Includes science.

Source: F. W. Dodge, National Information Services Division, McGraw-Hill Information Systems Company, New York, NY. Figures reported currently in *Dodge Construction Potential*.

No. 1225. CONSTRUCTION CONTRACTS—VALUE, BY STATE: 1980 TO 1987

[In millions of dollars. See headnote, table 1224. Represents value of construction in States in which work was actually done]

STATE	1980	1985	1986	1987			STATE	1980	1985	1986	1987		
				Total (incl. non- bldg.)	Resi- den- tial	Non- resi- den- tial					Total (incl. non- bldg.)	Resi- den- tial	Non- resi- den- tial
U.S.	148,393	232,277	248,588	254,673	119,915	89,422	MO	2,613	3,851	4,357	4,339	2,082	1,566
AL	1,918	2,885	2,985	3,154	1,358	1,030	MT	395	698	486	566	263	113
AK	706	1,500	1,176	749	115	272	NE	830	1,040	1,049	943	342	354
AZ	3,137	6,829	6,354	5,771	2,909	2,044	NV	1,167	1,629	2,153	1,987	1,066	612
AR	1,324	1,649	1,484	1,446	670	406	NH	477	1,355	1,622	1,716	993	395
CA	17,688	32,456	38,601	36,568	20,319	12,189	NJ	3,790	8,077	8,998	8,746	4,066	3,480
CO	2,791	4,667	3,812	3,183	1,517	969	NM	1,371	1,771	1,594	1,517	618	482
CT	1,440	3,385	4,138	4,236	2,132	1,536	NY	5,860	11,366	12,606	15,350	5,844	5,988
DE	305	715	991	722	360	205	NC	3,471	6,671	6,920	7,175	3,756	2,621
DC	510	985	1,083	876	235	544	OH	456	557	478	440	154	139
FL	12,847	17,820	17,954	19,073	11,174	5,443	OK	5,221	6,943	8,494	9,179	3,757	3,847
GA	3,939	7,566	9,020	8,699	4,787	2,861	OR	2,300	2,650	2,185	2,136	730	597
HI	1,216	873	1,157	1,189	593	417	PA	5,246	7,008	8,464	10,087	3,945	3,882
ID	635	758	680	697	265	203	RI	322	828	825	1,094	544	304
IL	5,313	7,513	9,156	10,188	4,442	3,810	SC	2,522	3,446	3,182	3,704	1,798	1,270
IN	2,775	4,045	4,777	5,070	2,293	2,097	SD	421	465	446	405	133	151
IA	1,540	1,532	1,317	1,479	445	501	TN	1,926	1,634	1,604	1,882	809	627
KS	1,687	2,227	2,337	2,264	1,024	789	TX	13,611	21,305	17,098	14,788	5,282	5,215
KY	2,165	2,843	3,240	3,227	1,354	1,225	UT	1,116	1,633	1,630	1,406	592	462
LA	3,270	3,869	3,157	3,154	1,049	1,017	VT	258	487	576	533	313	137
ME	538	785	1,088	937	546	244	VA	3,451	7,586	8,734	8,761	4,513	3,071
MD	3,062	5,703	6,267	7,262	3,583	2,417	WA	2,789	4,394	4,568	5,112	2,407	1,960
MA	2,712	5,806	6,498	7,516	3,959	2,581	WV	4,795	4,409	5,055	5,226	2,241	2,037
MI	4,174	5,827	6,995	8,547	3,398	3,727	WI	855	858	1,004	883	227	318
MN	2,746	4,285	4,888	5,000	2,554	1,498	WY	2,289	3,038	3,164	3,678	1,600	1,266
MS	1,561	1,543	1,523	1,634	604	647		644	693	605	479	146	87

Source: F. W. Dodge, National Information Services Division, McGraw-Hill Information Systems Company, New York, NY. Figures reported currently in *Dodge Construction Potential*.

Building Permits—Housing Starts

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NO. 1226. VALUE OF PRIVATE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS: 1978 TO 1987

[In billions of dollars. "16,000 and 17,000 places" series are based on U.S. total of approximately 16,000 and 17,000 places identified in 1978 and 1984 respectively, with local building permit systems]

TYPE OF CONSTRUCTION	16,000 PLACES							17,000 PLACES			
	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	
Total.....	101.6	107.4	102.1	103.7	98.5	127.5	153.4	155.0	170.5	184.2	186.0
Residential units.....	58.9	56.3	47.2	41.9	40.5	69.3	76.7	77.7	84.9	98.0	98.3
In structures with—											
1 unit.....	46.3	42.6	33.1	28.7	27.4	49.1	53.5	54.3	59.5	73.7	78.2
2-4 units.....	3.1	3.3	3.3	3.2	2.7	4.3	4.8	4.9	4.6	4.4	3.9
5 units or more.....	9.6	10.4	10.8	10.0	10.4	15.8	18.3	18.4	20.8	19.9	16.2
Nonhousekeeping residential buildings.....	1.3	1.6	1.6	2.0	2.6	3.1	3.7	3.7	3.9	4.0	3.5
Nonresidential buildings.....	32.2	38.3	34.8	39.3	34.8	37.0	46.7	47.2	52.7	50.6	50.0
Industrial buildings.....	7.8	9.3	8.0	7.9	6.1	5.8	9.1	9.2	9.5	9.7	7.7
Office buildings.....	6.8	8.1	9.9	14.6	12.9	12.6	15.9	16.1	18.1	14.5	13.6
Stores and other mercantile.....	7.6	9.0	6.7	6.2	5.5	7.4	9.8	9.9	12.0	12.1	13.5
Hospitals and other institutional.....	2.1	2.3	1.6	1.7	2.0	2.4	2.0	2.1	2.5	2.6	2.4
All other nonresidential.....	7.9	8.7	8.7	8.9	8.3	8.9	9.9	9.9	10.1	11.8	12.7
Additions and alterations.....	9.2	11.2	18.5	20.5	20.6	23.5	26.3	26.4	29.1	31.5	34.2

Source: U.S. Bureau of the Census, In U.S. Department of Commerce, International Trade Administration, *Construction Review*.

NO. 1227. NEW PRIVATELY OWNED HOUSING UNITS AUTHORIZED, BY STATE: 1986 AND 1987

[Based on about 17,000 places in U.S. having building permit systems]

STATE	HOUSING UNITS (1,000)			VALUATION (mil. dol.)			STATE	HOUSING UNITS (1,000)			VALUATION (mil. dol.)		
	1986		1987	1986		1987		1986		1987	1986		1987
	Total	1 unit	1986	Total	1 unit	1986		Total	1 unit	1986	Total	1 unit	
U.S.	1,769.4	1,534.8	1,024.4	98,005	98,346	78,198	MO	33.2	29.1	18.0	1,586	1,643	1,286
AL....	19.2	14.5	10.6	686	648	559	MT	1.2	.8	.6	57	48	43
AK....	1.4	.7	.4	117	63	42	NE	6.2	4.9	3.3	252	242	209
AZ....	61.6	40.2	27.7	3,083	2,775	2,276	NV	16.7	16.3	10.2	758	786	611
AR....	8.7	6.5	5.0	376	320	287	NH	18.0	14.6	10.9	1,113	1,017	664
CA....	314.6	251.8	134.7	20,865	19,560	13,711	NJ	57.4	51.5	36.5	3,550	3,575	2,828
CO....	31.0	18.0	12.9	1,627	1,235	1,052	NN.....	11.5	9.3	7.3	604	549	495
CT....	27.7	26.8	18.1	1,677	1,806	1,477	NY	60.2	62.2	41.7	3,730	4,417	3,182
DE....	5.5	7.1	5.0	235	319	254	NC	63.0	54.3	40.9	3,054	3,104	2,745
DC....	.6	1.2	.3	21	43	18	ND	1.7	2.0	.9	83	93	64
FL....	195.5	178.8	113.1	8,742	9,210	6,951	OH	44.5	45.2	28.8	2,537	2,999	2,448
GA....	76.9	64.2	46.4	3,868	3,723	3,216	OK	9.0	6.2	5.2	466	363	339
HI....	7.2	6.9	5.3	465	470	404	PA	10.7	12.2	7.9	628	753	626
ID....	3.8	3.2	2.6	217	201	183	RI	53.4	54.8	45.8	2,894	3,568	3,230
IL....	51.9	50.4	33.0	3,391	3,807	3,091	SC	26.8	23.5	18.5	1,357	1,405	1,236
IN....	29.7	27.3	18.9	1,578	1,756	1,488	SD	2.0	1.9	1.2	81	85	67
IA....	5.5	5.8	3.8	268	314	264	TN	34.4	28.9	21.7	1,701	1,765	1,530
KS....	13.1	11.8	7.8	782	802	692	TX	96.7	50.5	43.9	5,180	3,570	3,416
KY....	13.5	13.2	9.0	642	740	638	UT	13.8	7.7	6.8	698	509	478
LA....	10.5	8.5	7.1	557	450	414	VT	4.5	4.6	3.7	267	299	267
ME....	9.6	9.8	7.2	505	584	486	VA	73.5	66.7	46.2	3,663	3,697	3,083
MD....	42.4	41.1	33.6	2,269	2,485	2,207	WA	36.4	38.3	20.0	2,043	2,224	1,507
MA....	45.2	40.4	25.3	3,087	3,084	2,288	WV	1.9	1.9	1.3	83	88	74
MI....	47.2	46.6	28.5	2,437	2,628	2,050	WI	21.8	24.1	14.8	1,130	1,330	1,099
MN....	33.2	33.4	21.3	2,142	2,422	1,843	WY .....	.9	.6	.5	48	37	35
MS....	8.3	6.6	5.2	356	324	289							

Source: U.S. Bureau of the Census, *Construction Reports*, series C40, annual.

NO. 1228. NEW HOUSING UNITS STARTED: 1970 TO 1988

[Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series N 158-159]

YEAR	Total (1,000)	Percent change	PRIVATELY OWNED (1,000)		Pub- licly owned (1,000)	YEAR	Total (1,000)	Percent change	PRIVATELY OWNED (1,000)		Pub- licly owned (1,000)
			Total	1-unit structures					Total	1-unit structures	
1970	1,469	1 -2.1	1,434	813	35	1980	1,313	-25.4	1,292	852	20
1971	2,085	41.9	2,052	1,151	32	1981	1,100	-16.2	1,084	705	16
1972	2,379	14.1	2,357	1,309	22	1982	1,072	-2.6	1,062	663	10
1973	2,057	-13.5	2,045	1,132	12	1983	1,712	59.7	1,703	1,068	9
1974	1,353	-34.2	1,338	888	15	1984	1,756	2.6	1,750	1,084	3
1975	1,171	-13.4	1,160	892	11	1985	1,745	-6	1,742	1,072	2
1976	1,548	32.2	1,538	1,162	10	1986	1,807	3.6	1,805	1,179	2
1977	2,002	29.3	1,987	1,451	18	1987	1,623	-10.2	1,620	1,146	2
1978	2,036	1.7	2,020	1,433	16	1987, Jan.-July ²	(NA)	(NA)	1,678	1,184	(NA)
1979	1,760	-13.6	1,745	1,194	15	1988, Jan.-July ²	(NA)	(NA)	1,479	1,079	(NA)

NA Not available. ¹ Change from 1969. ² Average seasonally adjusted annual rate. ³ Preliminary.

Source: U.S. Bureau of the Census, *Construction Reports*, series C20.

Construction and Housing

NO. 1229. NEW PRIVATELY-OWNED HOUSING UNITS STARTED—SELECTED CHARACTERISTICS:
1970 TO 1987[In thousands. For composition of regions, see fig. I, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series N 156-163 and 170]

YEAR	Total units ¹	STRUCTURES WITH—			REGION				CONDOMINIUM UNITS ²			TYPE OF ASSIST-ANCE ³	
		One unit	2-4 units	5 or more units	North-east	Mid-west	South	West	Total	Single-family	Multi-family	FHA	VA
		1,434	813	85	536	218	294	612	311	(NA)	(NA)	421	61
1971	2,052	1,151	120	781	264	434	889	486	(NA)	(NA)	(NA)	528	94
1972	2,357	1,309	141	906	330	443	1,057	527	(NA)	(NA)	(NA)	371	104
1973	2,045	1,132	118	795	277	440	889	429	241	69	172	163	86
1974	1,338	888	68	382	183	317	553	285	175	46	130	95	73
1975	1,160	892	64	204	149	294	442	275	65	20	45	98	77
1976	1,538	1,162	86	289	169	400	569	400	95	30	64	144	100
1977	1,987	1,451	122	414	202	465	783	538	118	41	77	178	131
1978	2,020	1,433	125	462	200	451	824	545	156	42	114	178	127
1979	1,745	1,194	122	429	178	349	748	471	198	43	156	178	122
1980	1,292	852	110	331	125	218	643	306	186	35	160	177	95
1981	1,084	705	91	288	117	165	562	240	181	36	145	145	75
1982	1,062	683	80	320	117	149	591	205	170	40	130	152	73
1983	1,703	1,088	113	522	168	218	935	382	276	77	199	121	107
1984	1,750	1,084	121	544	204	243	856	436	291	96	194	63	97
1985	1,742	1,072	93	576	252	240	782	468	225	79	146	159	(NA)
1986	1,805	1,179	84	542	294	296	733	483	214	80	134	266	(NA)
1987	1,620	1,146	65	409	269	298	634	420	196	73	123	178	(NA)

NA Not available. ¹ For 1970-1976, characteristics such as type of structure, and region, include data for publicly owned units.² Type of ownership under which the owners of the individual housing units are also joint owners of the common areas of the building or community, includes a small number of cooperatively-owned units. ³ Source: U.S. Department of Housing and Urban Development, 1970-1979, *HUD Statistical Yearbook*; thereafter unpublished data.Source: Except as noted, U.S. Bureau of the Census, *Construction Reports*, series C20.

NO. 1230. NEW PRIVATELY-OWNED HOUSING UNITS STARTED, BY STATE: 1984 TO 1987

[In thousands of units]

REGION, DIVISION, AND STATE	1984	1985	1986	1987	DIVISION AND STATE	1984	1985	1986	1987
U.S.	1,749.9	1,742.0	1,805.0	1,821.0	S.A.	479.7	488.0	498.0	458.0
Region:					DE	4.3	5.0	5.7	6.9
Northeast	205.7	252.0	293.0	269.0	MD	36.9	38.8	42.0	41.7
Midwest	244.7	240.0	295.0	298.0	DC	.4	.7	1.5	1.8
South	866.0	762.0	733.0	634.0	VA	62.8	65.2	73.3	59.5
West	435.5	468.0	483.0	420.0	WV	2.8	1.7	2.5	2.3
N.E.	76.4	91.0	112.0	108.0	NC	62.7	80.1	74.7	63.5
ME	6.8	7.7	10.5	9.6	SC	33.1	31.6	27.9	24.7
NH	12.5	15.6	18.5	13.8	GA	80.0	68.8	79.1	70.4
VT	7.4	3.7	4.7	4.7	FL	196.7	196.1	191.6	188.8
MA	26.5	34.6	42.9	40.7	E.S.C.	92.1	87.0	89.0	81.0
RI	4.4	5.0	7.3	7.5	KY	15.7	14.7	15.8	16.9
CT	18.8	24.6	28.3	29.5	AL	42.4	40.4	38.6	35.5
M.A.	127.3	161.0	181.0	164.0	OK	20.1	21.4	24.2	20.1
NY	43.4	60.7	64.6	52.1	MS	13.9	10.3	10.1	8.1
N.J.	43.7	56.2	59.8	58.4	TX	222.1	159.9	107.9	66.1
PA	40.2	43.6	56.8	52.9					
E.N.C.	141.4	149.0	198.0	201.0	W.S.C.	294.1	206.0	144.0	95.0
OH	33.5	31.5	43.8	47.2	MT	12.7	12.8	12.0	10.4
IN	23.5	22.0	29.2	28.5	AR	30.8	19.7	12.9	9.4
IL	35.0	38.5	52.5	57.8	LA	28.5	13.9	11.3	9.0
MI	30.1	39.0	51.2	47.0	OK	16.2	9.6	8.5	7.0
WI	19.3	17.7	21.1	20.1	N.M.	73.1	72.6	58.2	40.8
W.N.C.	103.3	91.0	98.0	97.0	AZ	18.2	17.2	13.9	7.7
MN	30.4	26.3	32.0	31.8	UT	12.9	13.7	15.1	19.1
IA	7.7	4.9	5.6	5.8	N.V.	212.9	254.7	297.5	257.9
MO	30.8	32.6	36.7	38.3	Pac.	263.7	311.0	349.0	318.0
ND	3.9	2.1	1.8	1.8	WA	29.4	34.5	33.9	40.5
SD	4.5	2.5	2.0	2.0	OR	8.6	11.5	11.1	12.8
NE	7.1	5.2	6.1	5.1	CA	7.5	4.6	1.8	1.1
KS	18.9	17.2	13.6	12.6	AK	5.3	5.9	5.2	5.6
					H.I.				

Source: National Association of Home Builders, Economics Division, Washington, DC. Data provided from the Econometric Forecasting Service.

One-Family Houses Characteristics

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NO. 1231. CHARACTERISTICS OF NEW PRIVATELY OWNED ONE-FAMILY HOUSES COMPLETED: 1970 TO 1987

[Percent distribution, except as indicated. Data beginning 1980 show percent distribution of characteristics for all houses completed (includes new houses completed, houses built for sale completed, contractor-built and owner-built houses completed, and houses completed for rent). Data for 1970 cover contractor-built, owner-built, and houses for rent for year construction started and houses sold for year of sale. Percents exclude houses for which characteristics specified were not reported.]

CHARACTERISTIC	1970	1980	1985	1986	1987	CHARACTERISTIC	1970	1980	1985	1986	1987
Total houses (1,000).....	793	957	1,072	1,120	1,123	Bedrooms.....	100	100	100	100	100
Financing.....	100	100	100	100	100	2 or less.....	13	17	25	21	19
Mortgage.....	84	81	81	83	80	3.....	63	63	57	59	58
FHA-insured.....	30	16	15	20	15	4 or more.....	24	20	18	20	23
VA-guaranteed.....	7	8	7	8	6	Bathrooms.....	100	100	100	100	100
Conventional.....	55	57	54	59	59	1 or less.....	32	18	13	10	10
Farmers Home Administration.....	47	3	3	2	2	1½.....	20	10	11	9	7
Cash or equivalent.....	16	18	19	16	18	2.....	32	48	48	47	45
Floor area.....	100	100	100	100	100	2½ or more.....	16	25	29	33	38
Under 1,200 sq. ft.....	36	21	20	17	14	Heating fuel.....	100	100	100	100	100
1,200-1,599 sq. ft.....	28	29	30	30	27	Electricity.....	28	50	44	44	40
1,600-1,999 sq. ft.....	16	22	21	21	22	Gas.....	62	41	49	47	52
2,000-2,399 sq. ft.....	13	12	14	16	2,400 sq. ft. and over.....	8	3	3	5	5	
Average (sq. ft.).....	1,500	1,740	1,785	1,825	1,905	Oil.....	1	1	4	4	3
Median (sq. ft.).....	1,385	1,595	1,605	1,660	1,755	Other.....	1	1	1	1	1
Number of stories.....	100	100	100	100	100	Heating system.....	100	100	100	100	100
1.....	74	60	52	51	48	Warm air furnace.....	71	57	54	54	57
2 or more.....	17	31	42	44	46	Electric heat pump.....	(NA)	24	30	29	27
Foundation.....	100	100	100	100	100	Other.....	29	19	15	17	16
Full or partial basement.....	37	36	35	37	39	Central air-conditioning.....	100	100	100	100	100
Slab.....	36	45	48	45	43	With.....	34	63	70	69	71
Crawl space.....	27	19	18	18	18	Without.....	66	37	30	31	29

NA Not available.

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing* (a joint publication).

No. 1232. NEW PRIVATELY OWNED ONE-FAMILY HOUSES SOLD, BY REGION AND TYPE OF FINANCING, 1970 TO 1987, AND BY SALES-PRICE GROUP, 1987

[In thousands. Based on a national probability sample of monthly interviews with builders or owners of 1-family houses for which building permits have been issued or, for nonpermit areas, on which construction has started. For details, see source. For composition of regions, see fig. I, inside front cover]

YEAR AND SALES-PRICE GROUP	Total sales	REGION				FINANCING TYPE			
		North- east	Mid- west	South	West	Conven- tional	FHA and VA	Farm- ers Home Admin.	Cash
1970.....	485	61	100	203	121	1,213	244	(1)	27
1971.....	656	82	127	270	176	1,314	314	(1)	28
1972.....	718	96	130	305	187	1,447	242	(1)	30
1973.....	634	95	120	257	161	1,465	134	(1)	34
1974.....	519	69	103	207	139	1,378	112	(1)	28
1975.....	549	71	106	222	150	363	122	43	22
1976.....	646	72	128	247	199	458	134	23	31
1977.....	819	86	162	317	255	592	166	24	38
1978.....	817	78	145	331	262	575	174	26	43
1979.....	709	67	112	304	225	469	186	18	36
1980.....	545	50	81	267	145	302	196	14	32
1981.....	436	46	60	219	112	244	142	14	36
1982.....	412	47	48	219	99	193	173	11	34
1983.....	623	76	71	323	152	350	217	8	49
1984.....	639	94	76	308	160	423	149	9	58
1985.....	688	112	82	323	170	403	208	11	64
1986.....	750	136	96	322	196	411	268	12	59
1987, total.....	671	117	97	271	188	408	190	8	64
Under \$60,000.....	61	3	12	36	11	18	30	8	6
\$60,000 to \$69,999.....	53	(B)	8	32	11	18	32	(B)	3
\$70,000 to \$79,999.....	67	3	12	37	15	24	37	(B)	6
\$80,000 to \$89,999.....	140	15	21	61	42	64	62	(B)	11
\$100,000 to \$119,999.....	84	16	10	32	25	55	18	(B)	10
\$120,000 to \$149,999.....	99	28	13	31	28	78	8	(B)	12
\$150,000 to \$199,999.....	84	21	11	25	27	74	(B)	(B)	8
\$200,000 and over.....	84	30	10	17	27	76	(B)	(B)	8

B Base figure too small to meet statistical standards for reliability. (1) Houses financed by Farmers Home Administration included under conventional financing.

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing*, annual; and *New One-Family Houses Sold and For Sale*, monthly.

Construction and Housing

NO. 1233. MEDIAN SALES PRICE OF NEW PRIVATELY OWNED ONE-FAMILY HOUSES SOLD, BY REGION: 1970 TO 1987

[In dollars. For definition of median, see Guide to Tabular Presentation. For composition of regions, see fig. 1, inside front cover]

YEAR	U.S.	North-east	Mid-West	South	West	YEAR	U.S.	North-east	Mid-West	South	West
1970	23,400	30,300	24,400	20,300	24,000	1980	64,600	69,500	63,400	59,800	72,300
1971	26,200	30,600	27,200	22,500	25,500	1981	68,900	76,000	65,900	64,400	77,800
1972	27,600	31,400	29,300	25,800	27,500	1982	69,300	78,200	68,900	66,100	75,000
1973	32,500	37,100	32,900	30,900	32,400	1983	75,800	82,200	79,500	70,900	80,100
1974	35,900	40,100	36,100	34,500	35,800	1984	79,900	88,600	85,400	72,000	87,300
1975	39,300	44,000	39,600	37,300	40,600	1985	84,300	103,300	80,300	75,000	92,600
1976	44,200	47,300	44,800	40,500	47,200	1986	92,000	125,000	88,300	80,200	95,700
1977	48,800	51,600	51,500	44,100	53,500	1987 ¹	104,500	140,000	95,000	88,000	111,000
1978	55,700	58,100	59,200	50,300	61,300						
1979	62,900	65,500	63,900	57,300	69,800						

¹ 1988, U.S. total: 1st qtr., \$112,900, 2d qtr., \$110,800, 3d qtr., \$115,000.Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing*, annual; and *New One-Family Houses Sold and For Sale*, monthly.

NO. 1234. NEW MOBILE HOMES PLACED FOR RESIDENTIAL USE AND AVERAGE SALES PRICE, BY REGION: 1974 TO 1987

[A mobile home is a moveable dwelling, 10 feet or more wide and 35 feet or more long, designed to be towed on its own chassis and without need of a permanent foundation. Excluded are travel trailers, motor homes, and modular housing. Data are based on a probability sample and subject to sampling variability; see source. For composition of regions, see fig. 1, inside front cover]

YEAR	UNITS PLACED (1,000)					AVERAGE SALES PRICE (\$1,000)				
	Total	North-east	Mid-west	South	West	Total	North-east	Mid-west	South	West
1974	332.0	23.3	67.5	170.8	70.4	9.3	9.4	9.3	8.3	11.6
1975	229.3	14.7	48.5	110.8	55.2	10.6	10.5	10.7	9.0	13.6
1976	249.6	16.8	51.5	114.8	66.5	12.3	11.6	11.6	10.6	16.0
1977	257.5	16.7	50.7	112.5	77.7	14.2	12.9	13.5	12.1	18.1
1978	278.9	17.4	49.5	135.3	77.7	15.9	14.3	15.1	13.7	20.6
1979	278.9	16.9	47.3	145.2	70.5	17.6	15.8	16.1	15.8	23.1
1980	233.7	12.3	32.3	140.3	48.7	19.8	18.5	18.6	18.2	25.4
1981	229.2	12.0	30.1	143.5	43.6	19.9	19.0	18.9	18.4	25.6
1982	234.1	12.4	25.6	161.1	35.0	19.7	19.8	20.0	18.5	24.7
1983	276.1	16.3	34.3	186.0	41.4	21.0	21.4	20.4	19.7	27.0
1984	287.9	19.8	35.2	193.4	39.4	21.6	22.2	21.1	20.2	27.4
1985	283.4	20.2	38.6	187.6	36.9	21.8	22.7	21.5	20.4	28.7
1986	256.1	21.2	37.2	162.3	35.4	22.4	24.4	21.8	20.7	29.9
1987	239.2	23.6	40.0	145.5	30.1	23.7	25.6	23.7	21.9	31.0

Source: U.S. Bureau of the Census, *Construction Reports*, series C20.

No. 1235. EXISTING ONE-FAMILY HOUSES SOLD AND PRICE, BY REGION: 1970 TO 1987

[Based on data (adjusted and aggregated to regional and national totals) reported by participating real estate multiple listing services. For definition of median, see Guide to Tabular Presentation. For composition of regions, see fig. 1, inside front cover]

YEAR	HOUSES SOLD (1,000)					MEDIAN SALES PRICE (\$1,000)				
	Total	North-east	Mid-west	South	West	Total	North-east	Mid-west	South	West
1970	1,612	251	501	568	292	23.0	25.2	20.1	22.2	24.3
1971	2,018	311	583	735	389	24.8	27.1	22.1	24.3	26.5
1972	2,252	361	630	788	473	26.7	29.8	23.9	26.4	28.4
1973	2,334	367	674	847	446	28.8	32.8	25.3	29.0	31.0
1974	2,272	354	645	839	434	32.0	35.8	27.7	32.3	34.8
1975	2,476	370	701	862	543	35.3	39.3	30.1	34.8	39.6
1976	3,064	439	881	1,033	712	38.1	41.8	32.9	36.5	46.1
1977	3,650	515	1,101	1,231	803	42.9	44.4	36.7	39.8	57.3
1978	3,986	516	1,144	1,416	911	48.7	47.9	42.2	45.1	66.7
1979	3,827	526	1,061	1,353	887	55.7	53.6	47.8	51.3	77.4
1980	2,973	403	806	1,092	672	62.2	60.8	51.9	58.3	69.3
1981	2,419	353	632	917	516	66.4	63.7	54.3	64.4	95.2
1982	1,990	354	490	780	366	67.8	63.5	55.1	67.1	98.9
1983	2,719	493	709	1,035	481	70.3	72.2	56.6	69.2	94.9
1984	2,668	511	755	1,073	529	72.4	78.7	57.1	71.3	95.6
1985	3,214	622	866	1,172	564	75.5	88.9	58.9	75.2	85.4
1986	3,565	703	991	1,261	610	80.3	104.8	63.5	78.2	100.9
1987	3,526	685	959	1,282	600	85.6	133.3	66.0	80.4	113.2

Source: NATIONAL ASSOCIATION OF REALTORS®, Washington, DC, *Existing Home Sales*, monthly. (Copyright.)

Home Sales and Prices

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NO. 1236. MEDIAN SALES PRICE OF EXISTING ONE-FAMILY HOMES, BY SELECTED METROPOLITAN AREA: 1985 TO 1988

[In thousands of dollars. Areas are metropolitan statistical areas (MSA's) except as indicated; for definitions and components, see Appendix II]

METROPOLITAN AREA	1985	1986	1987	1988, 2nd qtr.	METROPOLITAN AREA	1985	1986	1987	1988, 2nd qtr.
U.S., all areas.....	75.5	80.3	85.6	88.9	Memphis, TN-AR-MS.....	64.6	70.6	75.0	76.8
Akron, OH PMSA.....	52.7	56.2	57.1	60.1	Miami-Hialeah, FL PMSA.....	80.5	81.1	81.1	83.5
Albany-Schenectady-Troy, NY.....	60.3	72.7	88.4	91.1	Milwaukee, WI PMSA.....	67.5	69.9	70.5	75.3
Albuquerque, NM.....	76.8	81.6	82.6	81.6	Minneapolis-St. Paul, MN-WI.....	75.2	77.9	80.5	84.3
Anaheim-Santa Ana, CA PMSA.....	135.8	147.7	167.3	204.0	Nashville, TN.....	66.1	70.8	75.5	78.3
Baltimore, MD.....	72.6	74.0	81.1	87.3	New York-Northern New Jersey-Long Island, NY-NJ-CT CMSCA.....	134.0	160.6	183.5	194.0
Baton Rouge, LA.....	74.8	70.9	67.8	64.5	Oklahoma City, OK.....	64.7	63.0	62.3	56.9
Birmingham, AL.....	64.5	68.3	71.6	76.5	Omaha, NE-IA.....	58.3	58.8	59.0	58.7
Boston, MA PMSA.....	134.2	159.2	177.2	182.9	Orlando, FL.....	70.3	72.5	76.2	77.7
Buffalo-Niagara Falls, NY CMSA.....	46.7	52.4	56.7	64.8	Philadelphia, PA-NJ PMSA.....	74.0	82.4	97.0	101.9
Chicago, IL PMSA.....	81.1	86.1	90.8	99.3	Phoenix, AZ.....	74.7	78.4	80.9	79.1
Cincinnati, OH-KY-IN PMSA.....	60.2	(NA)	66.1	69.6	Portland, OR PMSA.....	61.5	62.6	64.2	64.9
Cleveland, OH PMSA.....	64.4	66.9	68.1	69.9	Providence, RI PMSA.....	67.5	87.6	121.4	130.4
Columbus, OH.....	62.2	65.5	68.7	73.4	Riverside/San Bernardino PMSA.....	87.3	94.5	98.7	104.9
Dallas-Ft. Worth, TX CMSA.....	87.7	92.8	89.2	85.5	Rochester, NY.....	64.2	68.3	72.5	73.7
Denver, CO PMSA.....	84.3	86.4	88.9	82.4	St. Louis, MO-I.....	65.7	70.9	74.3	79.5
Des Moines, IA.....	52.5	55.9	55.6	58.2	Salt Lake City-Ogden, UT.....	66.7	68.5	69.4	68.9
Detroit, MI PMSA.....	51.7	58.1	65.6	72.3	San Antonio, TX.....	67.7	69.2	70.2	65.2
Ft. Lauderdale-Hollywood-Pompano Beach, FL PMSA.....	74.6	77.7	79.6	79.2	San Diego, CA.....	107.1	118.2	129.2	142.6
Hartford, CT PMSA.....	99.6	129.0	157.4	169.0	San Francisco-Oakland-San Jose, CA CMSCA.....	140.6	161.2	171.3	196.3
Honolulu, HI.....	162.1	172.0	186.0	198.7	Seattle/Tacoma CMSA.....	(NA)	(NA)	82.6	93.6
Houston, TX PMSA.....	78.6	69.9	65.9	63.5	Syracuse, NY.....	58.8	64.3	68.9	74.9
Indianapolis, IN.....	55.0	59.0	62.5	68.7	Tampa-St. Petersburg-Clearwater, FL.....	58.4	61.1	63.8	65.5
Jacksonsville, FL.....	58.4	62.8	65.1	67.4	Tulsa, OK.....	66.7	65.5	65.7	65.0
Kansas City, MO-KS.....	61.4	65.4	69.8	71.9	Washington, DC-MD-VA-West Palm Beach-Boca Raton-Delray Beach, FL.....	97.1	101.6	114.2	131.2
Las Vegas, NV.....	75.1	77.5	77.0	77.9	88.3	92.6	102.6	94.8	
Los Angeles-Long Beach, CA PMSA.....	118.7	128.8	147.7	175.9					
Louisville, KY-IN.....	50.6	51.7	51.7	54.1					

NA Not available.

Source: NATIONAL ASSOCIATION OF REALTORS®, Washington, DC, *Existing Home Sales*, monthly. (Copyright.)

NO. 1237. EXISTING HOME SALES, BY STATE: 1983 TO 1987

[In thousands. For composition of regions, see fig. I, inside front cover]

REGION, DIVISION, AND STATE	1983	1984	1985	1986	1987	DIVISION AND STATE	1983	1984	1985	1986	1987
U.S.¹.....	2,924.0	3,098.0	3,493.0	3,897.0	3,887.0	S.A.....	524.3	584.2	640.3	723.2	727.2
Region: 1						DE.....	9.3	10.0	12.3	12.9	14.0
Northeast.....	573.5	609.4	756.3	845.4	875.1	MD.....	60.8	68.8	80.9	86.9	78.5
Midwest.....	756.9	805.6	917.1	1,042.6	1,016.9	DC.....	7.5	7.8	9.9	11.6	10.5
South.....	1,068.1	1,127.8	1,236.9	1,323.9	1,353.9	VA.....	103.1	98.1	107.2	130.4	113.0
West.....	611.6	660.2	703.6	807.6		WV.....	32.2	34.6	37.7	39.7	36.6
N.E.	155.2	170.4	206.0	210.7	234.4	NC.....	93.0	103.2	123.3	139.2	140.6
ME.....	21.0	23.3	27.1	30.8	35.2	SC.....	39.7	45.0	52.6	58.0	60.9
NH.....	15.2	16.9	19.3	17.4	19.2	GA.....	51.0	60.1	65.1	75.1	89.0
VT.....	7.4	8.2	9.9	12.4	12.9	FL.....	127.7	137.6	151.3	169.4	184.2
MA.....	65.0	66.5	80.5	84.6	100.5	E.S.C.....	20.0	221.3	252.1	265.6	269.2
RI.....	8.8	11.0	13.2	13.5	13.4	KY.....	56.5	57.3	57.7	58.6	64.1
CT.....	37.8	44.5	56.0	52.0	52.5	TN.....	71.1	78.7	89.2	112.0	111.2
M.A.	418.3	439.0	550.3	634.7	640.7	AL.....	41.8	53.3	59.7	60.8	59.7
NY.....	148.5	148.9	190.7	216.8	223.9	OK.....	64.7	51.9	46.8	49.4	44.6
N.J.....	112.9	119.7	148.8	159.6	157.3	MS.....	32.6	32.0	35.5	34.2	34.2
PA.....	156.9	170.4	210.8	258.3	259.5	W.S.C.....	361.8	342.3	344.5	335.1	357.5
E.N.C.	490.5	520.7	625.8	708.7	688.9	AR.....	43.0	43.4	49.8	52.8	48.2
OH.....	129.1	138.3	162.5	179.9	180.9	LA.....	63.0	50.3	44.1	34.0	40.4
IN.....	67.2	64.5	90.1	86.1	88.8	WY.....	5.5	6.2	6.5	5.1	6.0
IL.....	115.3	122.5	140.5	179.2	175.3	CO.....	46.1	47.1	49.3	47.5	46.7
MI.....	135.1	139.4	167.2	186.5	169.6	CO.....	18.3	19.1	19.8	19.5	20.0
WI.....	53.8	66.0	65.5	76.9	73.3	NM.....	12.4	12.4	11.1	11.9	11.6
W.N.C.	266.4	284.9	291.3	333.9	328.0	MT.....	11.3	12.3	11.5	11.3	10.9
MN.....	58.6	65.5	73.9	96.8	89.4	ID.....	5.5	6.2	6.5	5.1	6.0
IA.....	39.1	41.9	39.5	46.1	48.3	WY.....	4.1	4.7	4.7	4.7	4.7
MO.....	72.1	81.0	85.8	88.4	88.4	CO.....	19.1	19.6	20.3	19.8	22.4
ND.....	9.4	10.0	8.9	9.5	11.2	TX.....	169.2	181.3	195.4	195.7	189.3
SD.....	13.3	11.8	11.3	13.2	13.0	MT.....	12.4	12.4	11.1	11.9	11.6
NE.....	24.6	24.5	24.5	25.5	23.9	ID.....	11.3	12.3	11.5	11.3	10.9
KS.....	49.3	49.8	47.4	54.4	54.4	WY.....	5.5	6.2	6.5	5.1	6.0

¹ U.S. and region totals are derived independently and therefore are not equal to the sum of the States.

² Provided by the California Association of Realtors®.

Source: NATIONAL ASSOCIATION OF REALTORS®, Washington, DC, *Existing Home Sales*, monthly. (Copyright.)

Construction and Housing

NO. 1238. NEW APARTMENTS COMPLETED AND RENTED IN 3 MONTHS, BY REGION: 1980 TO 1987

[Structures with 5 or more units, privately financed, nonsubsidized, unfurnished apartments. Based on sample and subject to sampling variability. For composition of regions, see fig. I, inside front cover]

YEAR AND RENT	NUMBER (1,000)					PERCENT RENTED IN 3 MONTHS				
	Total	North-east	Mid-west	South	West	Total	North-east	Mid-west	South	West
1980.....	196.1	14.2	43.8	91.5	46.6	75	77	77	74	75
1981.....	135.3	4.9	36.9	68.4	25.1	80	85	86	78	75
1982.....	117.0	4.6	21.9	66.8	23.7	72	74	79	70	72
1983.....	191.5	3.5	41.1	115.1	31.8	69	73	85	63	69
1984.....	313.2	3.8	41.2	194.4	73.9	67	84	79	63	70
1985.....	365.2	8.1	54.0	166.1	137.0	65	69	72	59	68
1986.....	407.6	16.9	64.5	171.7	154.5	66	70	70	62	67
1987.....	346.5	14.7	63.1	124.6	144.2	63	65	67	59	84
Less than \$350.....	23.9	2.4	4.6	12.4	4.5	74	71	73	76	69
\$350-\$399.....	42.3	.7	9.4	20.3	11.9	62	39	64	58	67
\$400-\$449.....	42.4	.1	6.9	17.1	18.2	59	100	72	56	58
\$450-\$499.....	52.4	.9	10.2	21.9	19.2	63	88	66	59	64
\$500-\$549.....	38.1	.4	8.9	15.9	14.9	64	81	73	57	66
\$550 or more.....	147.5	10.1	25.1	36.9	75.4	62	62	63	57	65

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-131, and unpublished data.

NO. 1239. GROSS HOUSING PRODUCT—SUMMARY: 1970 TO 1987

[In billions of dollars. For definition of current and constant dollars, see Guide to Tabular Presentation]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS					
	1970	1980	1984	1985	1986	1987	1970	1980	1984	1985	1986	1987
Total value of housing output ¹	90.5	251.2	356.7	387.4	417.9	449.8	207.4	299.9	320.0	328.0	335.2	344.9
Nonfarm housing.....	87.3	240.1	344.5	376.4	408.0	440.6	189.1	265.6	307.9	317.0	323.8	333.8
Owner-occupied.....	81.3	178.3	252.3	272.7	293.7	317.1	132.8	212.0	226.1	230.8	234.5	241.4
Tenant-occupied.....	28.0	61.9	92.2	103.8	114.3	123.5	56.2	73.6	81.8	86.3	89.4	92.4
Farm housing.....	3.3	11.0	12.2	10.9	9.8	9.2	18.3	14.3	12.1	11.7	11.4	11.1
Less: Intermediate goods and services consumed.....	12.7	47.2	61.1	63.4	66.7	70.9	29.9	56.4	54.9	53.9	53.5	54.4
Equals: Gross housing product.....	77.8	204.0	295.6	323.9	351.1	378.8	177.5	243.5	265.2	274.9	281.6	290.4

¹ Equals personal consumption expenditures (see text, section 14) for housing, less expenditures for transient hotels, motels, clubs, schools, and other group housing.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

NO. 1240. RESIDENTIAL CAPITAL—STOCKS AND AVERAGE AGE: 1970 TO 1987

[As of Dec. 31. Data based on fixed residential capital formation components of the gross national product. For definition of current and constant dollars, see Guide to Tabular Presentation]

ITEM	CURRENT DOLLARS (bil. dol.)					CONSTANT (1982) DOLLARS (bil. dol.)					AVERAGE AGE ¹ (years)				
	1970	1980	1985	1986	1987	1970	1980	1985	1986	1987	1970	1980	1985	1986	1987
Gross stocks ²	1,220	4,184	5,510	5,817	6,283	3,319	4,484	5,008	5,161	5,313	25.1	23.7	24.0	23.8	23.7
Private nonfarm:															
1-4 units.....	983	3,331	4,395	4,643	5,027	2,689	3,572	3,985	4,108	4,237	25.7	24.5	24.8	24.7	24.5
5 or more units.....	125	508	895	743	805	243	543	631	658	678	18.1	17.6	18.5	18.4	18.6
Farm (1-4 units).....	55	134	152	153	158	150	145	137	135	133	43.9	42.9	42.9	43.1	43.2
Private															
nonhousekeeping....	10	24	27	28	29	27	25	25	25	25	14.6	19.3	21.8	22.3	22.7
Mobile homes.....	14	73	90	93	94	29	77	89	90	90	4.7	7.1	8.2	8.3	6.4
Public: Federal, State and local.....	25	85	112	117	126	68	91	101	104	106	14.9	19.6	21.7	22.0	22.4
Net stocks ²	791	2,734	3,555	3,761	4,070	2,151	2,929	3,230	3,336	3,439	16.5	16.2	16.8	16.7	16.7
Private nonfarm:															
1-4 units.....	639	2,187	2,853	3,021	3,279	1,748	2,345	2,587	2,673	2,764	17.2	16.8	17.4	17.3	17.2
5 or more units.....	88	363	486	520	561	243	387	441	460	472	11.1	12.5	13.6	13.6	13.8
Farm (1-4 units).....	24	57	64	64	65	64	62	58	55	55	28.8	26.4	26.8	26.8	26.9
Private															
nonhousekeeping....	6	12	13	13	13	18	13	11	11	11	8.0	16.0	18.3	18.6	18.7
Mobile homes.....	10	41	46	47	47	21	43	46	45	45	3.3	5.3	5.6	5.6	5.7
Public: Federal, State and local.....	18	57	72	75	80	51	61	65	67	67	12.7	16.2	17.6	17.7	17.9

¹ Constant-dollar stocks. ² Includes equipment, not shown separately. ³ Based on straight-line depreciation.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August 1988, and *Fixed Reproducible Tangible Wealth in the United States, 1925-85*.

Housing Characteristics

705

No. 1241. HOUSING UNITS—SUMMARY OF CHARACTERISTICS AND EQUIPMENT, BY TENURE AND REGION: 1985

[In thousands of units, except as indicated. Based on the American Housing Survey; see Appendix III. For composition of regions, see fig. I, inside front cover]

ITEM	Total housing units	Seasonal	YEAR-ROUND UNITS							Va- cant	
			Occupied								
			Total	Owner	Renter	North- east	Mid- west	South	West		
Total units	99,931	3,182	88,425	58,145	32,280	18,729	22,142	30,064	17,490	8,324	
Percent distribution	100.0	3.2	68.5	56.2	32.3	21.2	25.0	34.0	19.8	8.3	
Units in structure:											
Single family detached	60,607	1,834	55,076	46,703	8,373	9,368	14,958	19,984	10,768	3,697	
Single family attached	4,514	64	4,102	2,211	1,890	1,431	814	1,212	645	349	
2-4 units	11,655	134	10,217	1,996	8,221	3,324	2,515	2,426	1,952	1,304	
5-9 units	5,134	73	4,372	344	4,029	903	967	1,408	1,094	889	
10-19 units	4,558	98	3,760	261	3,500	818	768	1,360	817	699	
20-49 units	3,530	146	2,913	287	2,627	904	603	651	758	470	
50 or more units	3,829	135	3,230	438	2,792	1,540	661	583	446	474	
Mobile home or trailer	6,094	698	4,754	3,806	848	440	860	2,440	1,014	642	
Stories in structure:											
One story	40,884	2,083	35,443	28,188	9,255	1,502	4,810	19,305	8,826	3,358	
2 stories	29,771	619	26,673	18,561	10,112	4,874	6,224	7,564	5,911	2,479	
3 stories	21,117	274	19,207	11,741	7,466	7,854	7,752	2,350	1,250	1,636	
4-6 stories	5,545	106	4,825	1,295	3,530	3,010	998	485	381	613	
7 or more stories	2,613	100	2,277	360	1,917	1,389	358	359	171	237	
Foundation:											
Full or partial basement	29,985	326	28,270	24,759	9,511	9,317	11,991	4,341	2,623	1,388	
Crawl space	18,168	743	16,009	12,514	3,495	591	2,250	8,881	4,487	1,417	
Concrete slab	14,899	488	13,382	10,820	2,783	748	1,309	7,284	4,041	1,049	
Other	2,070	361	1,517	1,022	495	143	222	891	281	182	
Year structure built:											
1939 and earlier	24,034	555	21,051	12,029	9,022	7,725	6,756	4,175	2,395	2,430	
1940 to 1949	8,889	345	7,920	5,001	2,919	1,781	1,808	2,699	1,652	604	
1950 to 1959	13,974	416	12,794	9,419	3,376	2,694	3,260	4,052	2,788	764	
1960 to 1969	16,578	553	14,950	10,035	4,915	2,568	3,483	5,537	3,382	1,075	
1970 to 1979	26,477	976	23,381	14,128	9,254	3,167	5,433	9,351	5,432	2,120	
1980 or later	9,999	337	8,329	5,534	2,796	815	1,382	4,250	1,883	1,331	
Median year			1982	1985	1982	1982	1949	1958	1987	1988	
Main heating equipment:											
Warm-air furnace	52,329	1,056	47,255	33,251	14,004	6,350	15,631	16,029	9,245	4,018	
Electric heat pump	3,618	163	3,031	2,272	758	207	298	2,203	322	424	
Steam or hot water system	15,083	117	13,929	7,037	8,892	9,164	2,928	903	634	1,037	
Floor, wall, or pipeless furnace	6,170	168	5,498	2,710	2,786	178	459	1,870	2,988	508	
Built-in electric units	6,821	342	5,733	2,643	3,090	1,229	1,149	1,747	1,608	748	
Room heaters with flue	3,595	284	2,938	1,405	1,633	369	537	1,472	580	373	
Room heaters without flue	3,058	52	2,639	1,461	1,178	53	37	2,488	64	385	
Stoves	5,042	353	4,285	3,312	973	722	821	1,768	973	405	
Fireplaces	1,499	171	1,257	1,066	191	62	120	588	488	71	
None	1,101	349	529	198	331	16	20	142	351	223	
Portable elec. heaters	895	44	598	274	324	18	24	408	148	53	
Other	821	84	736	517	219	61	118	448	110	101	
Air conditioning:											
Central	32,864	745	29,447	20,755	8,692	2,202	7,171	15,705	4,370	2,672	
Percent of total units	32.9	23.4	33.3	37.0	26.9	11.8	32.4	52.2	25.0	32.1	
One or more room units	27,674	408	26,010	16,849	9,363	7,123	6,692	9,043	3,155	1,254	
Plumbing:											
Units with all plumbing facilities	98,447	2,730	87,765	55,918	31,847	18,582	22,030	29,740	17,413	7,952	
Units lacking some or all plumbing facilities	1,484	452	660	227	433	146	112	324	78	372	
Percent of total units	1.5	14.2	.7	.4	1.3	.8	.5	1.1	.4	4.5	
Source of water:											
Public system or private company	84,343	1,833	75,591	45,558	30,033	15,928	18,216	25,172	16,275	6,919	
Percent of total units	84.4	57.6	85.5	81.1	83.0	85.0	82.3	83.7	83.1	63.1	
Well serving 1 to 5 units	14,126	897	12,041	9,984	2,057	2,626	3,783	4,480	1,151	1,187	
Other	1,462	452	793	603	190	175	143	412	64	217	
Means of sewage disposal:											
Public sewer	74,542	1,313	67,168	38,545	28,622	14,413	17,287	20,722	14,746	6,062	
Percent of total units	74.6	41.3	76.0	68.7	68.7	77.0	78.1	68.9	84.3	72.8	
Septic tank, cesspool, chemical toilet	24,578	1,593	20,922	17,443	3,479	4,282	4,828	8,080	2,722	2,064	
Other	810	276	335	156	178	35	28	251	22	198	

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-85, American Housing Survey.

Construction and Housing

NO. 1242. HOUSING UNITS—SIZE OF UNITS AND LOT: 1985

[In thousands, except as indicated. Based on the American Housing Survey; see Appendix III]

ITEM	Total housing units	Seasonal	YEAR-ROUND UNITS							Vacant	
			Occupied								
			Total	Owner	Renter	North-east	Mid-west	South	West		
Total units...	99,931	3,182	88,425	56,145	32,280	18,729	22,142	30,064	17,490	8,324	
Rooms:											
1 room.....	1,072	119	742	29	713	276	154	116	198	212	
2 rooms.....	1,681	150	1,195	110	1,085	311	255	316	313	336	
3 rooms.....	10,760	601	8,711	997	7,714	2,363	1,899	2,439	2,010	1,448	
4 rooms.....	20,592	1,177	16,844	6,526	10,318	3,191	3,802	6,338	3,514	2,571	
5 rooms.....	22,205	624	19,805	13,222	6,583	3,645	5,162	7,331	3,667	1,776	
6 rooms.....	18,838	290	17,559	14,118	3,441	3,694	4,440	6,193	3,232	989	
7 rooms.....	12,360	128	11,706	10,260	1,445	2,529	3,158	3,869	2,151	527	
8 rooms or more.....	12,422	95	11,862	10,883	979	2,721	3,273	3,461	2,407	465	
Median number of rooms.....	5.2	4.1	5.3	6.0	4.1	5.4	5.5	5.3	5.2	4.3	
Complete bathrooms:											
No bathrooms.....	1,780	482	903	304	600	260	166	368	109	395	
1 bathroom.....	54,577	1,814	47,572	22,996	24,577	11,590	12,905	14,880	8,197	5,190	
1 and one-half bathrooms.....	16,125	280	15,019	11,708	3,311	3,565	4,730	4,223	2,501	826	
2 or more bathrooms.....	27,448	606	24,930	21,138	3,792	3,314	4,340	10,593	6,883	1,912	
Square footage of unit:											
Single detached and attached units and mobile homes ¹	66,683	2,532	59,816	50,600	9,216	9,804	15,815	22,419	11,778	4,334	
Less than 500.....	1,810	453	908	497	411	75	137	455	241	248	
500 to 749.....	4,060	496	3,086	1,959	1,127	301	680	1,595	510	478	
750 to 999.....	7,290	431	6,249	4,654	1,595	604	1,434	3,005	1,206	610	
1,000 to 1,499.....	16,485	328	15,230	12,689	2,541	1,510	3,285	6,956	3,479	928	
1,500 to 1,999.....	13,247	166	12,509	11,094	1,415	1,888	3,116	4,590	2,935	572	
2,000 to 2,499.....	9,204	42	8,873	8,045	827	1,867	2,932	2,474	1,599	290	
2,500 to 2,999.....	4,862	39	4,668	4,321	347	1,238	1,548	1,191	701	156	
3,000 to 3,999.....	4,222	35	4,047	3,749	288	1,075	1,394	1,041	536	140	
4,000 or more.....	2,288	23	2,205	2,013	192	633	670	632	270	59	
Other ²	3,414	520	2,042	1,578	463	632	619	491	300	852	
Median square footage.....	1,583	783	1,636	1,712	1,245	2,081	1,831	1,425	1,551	1,218	
Lot size:											
Single detached and attached units and mobile homes ^{1,3}	66,653	290	63,918	52,812	11,106	11,234	16,629	23,632	12,423	2,445	
Less than one-eighth acre.....	7,394	69	7,017	5,816	1,201	1,575	1,691	1,969	1,782	308	
One-eighth to one-quarter acre.....	14,124	55	13,536	12,106	1,430	2,117	3,686	4,199	3,534	533	
One-quarter to one-half acre.....	9,371	39	8,982	8,234	748	1,597	2,248	3,523	1,815	351	
One-half up to one acre.....	6,053	17	5,882	5,349	534	1,402	1,301	2,492	887	154	
1 to 4 acres.....	8,931	23	8,676	7,692	984	1,888	1,786	3,942	1,080	232	
5 to 9 acres.....	1,454	—	1,425	1,285	139	181	396	665	183	29	
10 acres or more.....	3,949	29	3,829	3,306	523	515	1,374	1,569	372	91	
Median acreage.....	.36	.23	.36	.37	.30	.40	.35	.46	.23	.26	

¹ Represents zero. ² Does not include selected vacant units. ³ Represents units not reported or size unknown.³ Includes units not reported or for which data are not known, not shown separately.Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-85, American Housing Survey.

NO. 1243. OCCUPIED HOUSING UNITS—TENURE, BY RACE OF HOUSEHOLDER: 1920 TO 1985

[In thousands, except as indicated. As of April 1, except 1985, as of fall. Prior to 1960, excludes Alaska and Hawaii. Statistics on the number of occupied units are essentially comparable although identified by various terms—the term "family" applies to figures for 1920 and 1930; "occupied dwelling unit," 1940 and 1950; and "occupied housing unit," 1960 to 1985. For 1920, includes the small number of quasifamilies; for 1930, represents private families only. See also *Historical Statistics, Colonial Times to 1970*, series N 238-245.]

RACE OF HOUSEHOLDER AND TENURE	1920	1930	1940	1950	1960	1970	1980	1985
ALL RACES								
Occupied units, total.....	24,352	29,905	34,855	42,826	53,024	63,445	80,390	88,425
Owner occupied.....	11,114	14,280	15,196	23,560	32,797	39,886	51,785	56,145
Percent of occupied.....	45.6	47.8	43.6	55.0	61.9	62.9	64.4	63.5
Renter occupied.....	13,238	15,624	19,659	19,268	20,227	23,560	28,595	32,280
WHITE								
Occupied units, total.....	21,826	26,983	31,561	39,044	47,880	56,606	68,810	76,266
Owner occupied.....	10,511	13,544	14,418	22,241	30,823	37,005	46,571	50,938
Percent of occupied.....	48.2	50.2	45.7	57.0	64.4	65.4	67.8	66.8
Renter occupied.....	11,315	13,439	17,143	16,803	17,057	19,601	22,139	25,328
BLACK AND OTHER								
Occupied units, total.....	2,526	2,922	3,293	3,783	5,144	6,839	11,580	12,160
Owner occupied.....	603	737	778	1,319	1,974	2,581	5,124	5,208
Percent of occupied.....	23.9	25.2	23.6	34.9	38.4	42.1	44.2	42.8
Renter occupied.....	1,923	2,185	2,516	2,464	3,170	3,959	6,456	6,952

Source: U.S. Bureau of the Census, *Census of Housing: 1960*, vol. 1; *1970*, vol. 1; *1980 Census of Housing*, vol. 1, chapter A (HC80-1-A); and *Current Housing Reports*, series H-150-85, American Housing Survey: 1985.

Occupied Housing Units—Characteristics

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No. 1244. OCCUPIED HOUSING UNITS—TENURE, BY SELECTED CHARACTERISTICS OF THE UNIT AND HOUSEHOLDER: 1985

[In thousands of units, except as indicated. Based on the American Housing Survey; see Appendix III]

CHARACTERISTIC	Total occupied units	TENURE		BLACK		HISPANIC ORIGIN ¹		ELDERLY ²		RECENT MOVERS ³	
		Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter
Total units.....	88,425	56,145	32,280	4,310	5,593	2,012	3,066	13,835	5,062	4,664	12,186
Units in structure:											
Single family detached.....	55,076	46,703	8,373	3,427	1,249	1,660	729	11,180	1,011	3,331	2,875
Single family attached.....	4,102	2,211	1,890	359	400	70	160	583	250	269	729
2-4 units.....	10,217	1,996	8,221	171	1,554	110	763	679	1,151	175	3,118
5-9 units.....	4,372	344	4,029	8	780	14	392	87	559	59	1,684
10-19 units.....	3,760	281	3,500	31	597	9	325	82	463	69	1,560
20-49 units.....	2,913	287	2,627	16	390	14	397	142	455	36	1,023
50 or more units.....	3,230	438	2,792	57	577	17	256	172	1,096	68	632
Mobile home or trailer.....	4,754	3,906	848	240	45	117	44	909	77	558	445
Stories in structure:											
One story.....	35,443	28,198	9,255	2,439	1,557	1,491	1,003	8,913	1,373	2,934	3,697
2 stories.....	26,673	16,561	10,112	796	1,725	302	860	3,603	1,141	1,305	4,448
3 stories.....	19,207	11,741	7,486	865	1,167	170	368	2,816	1,125	894	2,739
4-6 stories.....	4,825	1,295	3,530	156	677	34	503	373	632	86	981
7 or more stories.....	2,277	360	1,917	54	467	15	223	129	790	46	302
Year structure built:											
1939 or earlier.....	21,051	12,029	9,022	1,139	1,733	295	969	4,447	1,508	576	2,823
1940 to 1949.....	7,920	5,001	2,919	586	856	238	413	1,838	429	201	888
1950 to 1959.....	12,794	9,419	3,376	648	621	391	395	2,697	501	472	1,080
1960 to 1969.....	14,950	10,035	4,915	734	813	327	375	2,234	849	547	1,794
1970 to 1979.....	23,381	14,128	9,254	915	1,471	559	706	2,107	1,436	1,288	3,986
1980 or later.....	8,829	5,534	2,798	287	287	209	208	511	340	1,581	1,795
Median year.....	1962	1962	1962	1957	1957	1962	1954	1952	1961	1975	1968
Percent of total occupied units—											
Lacking some or all plumbing facilities.....	.8	.4	1.3	1.2	3.0	.4	1.0	.9	2.3	.1	1.0
With public water system or private company.....	85.5	81.1	93.0	88.2	96.3	94.6	87.2	83.1	93.2	84.5	94.0
With public sewer.....	76.0	68.7	88.7	78.7	94.2	83.5	83.8	71.1	89.6	72.1	90.2
With air conditioning.....	33.3	37.0	26.9	25.7	20.2	32.7	17.9	31.9	22.8	47.9	34.9

¹ Persons of Hispanic origin may be of any race. ² Householders 65 years old and over. ³ Recent movers are householders that moved during the 12 months prior to interview.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-85, American Housing Survey.

No. 1245. OCCUPIED HOUSING UNITS—HOUSING VALUE AND GROSS RENT: 1985

[In thousands of units, except as indicated. Based on the American Housing Survey; see Appendix III]

VALUE CATEGORY	OWNER OCCUPIED UNITS				RENT CATEGORY	RENTER OCCUPIED UNITS			
	Total units	Black	Hispanic ¹	Elderly ²		Total units	Black	Hispanic ¹	Elderly ²
Specified owner occupied.....	44,875	3,668	1,695	10,598	Specified renter occupied.....	31,806	5,549	3,050	4,982
Less than \$20,000.....	2,506	622	136	1,014	Less than \$200.....	4,389	1,360	422	1,530
\$20,000-\$29,999.....	2,492	432	89	860	\$200-\$249.....	2,634	499	247	537
\$30,000-\$39,999.....	4,282	602	146	1,051	\$250-\$299.....	3,233	594	348	464
\$40,000-\$49,999.....	5,279	511	188	1,439	\$300-\$349.....	3,717	724	457	389
\$50,000-\$59,999.....	4,686	398	156	1,127	\$350-\$399.....	3,658	595	347	389
\$60,000-\$69,999.....	5,048	318	177	1,018	\$400-\$449.....	3,246	528	322	344
\$70,000-\$79,999.....	4,014	227	150	813	\$450-\$499.....	2,392	312	201	231
\$80,000-\$99,999.....	5,977	309	264	1,051	\$500-\$599.....	3,133	383	305	287
\$100,000-\$119,999.....	3,046	115	140	589	\$600-\$699.....	1,694	165	133	135
\$120,000-\$149,999.....	2,881	103	130	492	\$700-\$799.....	832	79	60	54
\$150,000-\$199,999.....	2,319	58	57	388	\$800-\$999.....	673	45	28	45
\$200,000-\$299,999.....	1,621	24	34	299	\$1,000 and over.....	482	38	54	41
\$300,000 and over.....	723	8	18	136	No cash rent.....	1,753	226	123	454
Median value (dol.).....	66,300	43,500	66,900	55,600	Median amount (dol.).....	365	314	349	271

¹ Persons of Hispanic origin may be of any race. ² Householders 65 years old and over.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-85, American Housing Survey.

Construction and Housing

NO. 1246. OCCUPIED HOUSING UNITS—FINANCIAL SUMMARY, BY SELECTED CHARACTERISTICS OF THE HOUSEHOLDER AND TENURE: 1985

[In thousands of units. Housing costs include real estate taxes, property insurance, utilities, fuel, water, garbage collection, and mortgage. Based on the American Housing Survey; see Appendix III.]

ITEM	Total occupied units	TENURE		BLACK		HISPANIC ORIGIN ¹		ELDERLY ²	
		Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter
Total units ³	88,425	56,145	32,280	4,310	5,593	2,012	3,066	13,835	5,062
Monthly housing costs:									
Less than \$300	32,898	22,502	10,337	1,938	2,465	728	1,020	10,242	2,557
\$300-\$399	13,905	6,483	7,422	502	1,318	225	807	1,427	858
\$400-\$499	10,969	5,323	5,637	397	940	200	523	848	575
\$500-\$599	7,411	4,260	3,151	347	386	138	305	383	287
\$600-\$699	4,874	3,171	1,703	211	165	128	133	204	137
\$700-\$799	3,381	2,546	835	152	79	93	60	128	54
\$800-\$999	3,804	3,127	678	195	45	160	28	157	45
\$1,000 or more	4,708	4,223	486	158	38	165	54	218	41
Median amount (dol.)	357	348	384	302	314	385	349	199	270
Monthly housing costs as percent of income:									
Less than 5 percent	2,105	1,677	228	91	20	64	17	390	26
5-9 percent	9,978	8,986	991	557	93	285	77	2,047	91
10-14 percent	12,741	9,729	3,012	628	469	306	202	2,506	203
15-19 percent	12,741	8,441	4,300	584	615	220	396	2,186	261
20-24 percent	10,890	6,472	4,418	476	653	240	369	1,482	464
25-29 percent	8,458	4,680	3,767	342	667	191	340	1,148	676
30-34 percent	5,733	3,184	2,550	301	438	126	238	800	480
35-39 percent	3,773	1,911	1,882	172	310	97	211	598	423
40 percent or more	14,362	5,906	8,455	701	1,885	284	991	2,073	1,829
Median amount (percent)	21	18	27	21	31	21	30	19	35
Median monthly costs (dol.):									
Electricity	57	64	43	63	44	61	40	51	36
Piped gas	49	56	34	66	40	39	* 25	52	31
Fuel oil	64	66	56	64	64	74	62	72	56

¹ Persons of Hispanic origin may be of any race. ² Householders 65 years old and over. ³ Includes units with mortgage payment not reported and no cash rent not shown separately. ⁴ Less than \$25.

NO. 1247. OWNER OCCUPIED HOUSING UNITS—MORTGAGE CHARACTERISTICS, BY SELECTED CHARACTERISTICS OF THE HOUSEHOLDER: 1985

[Based on the American Housing Survey; see Appendix III.]

CHARACTERISTIC	NUMBER (1,000)				PERCENT OF TOTAL OWNER OCCUPIED UNITS				
	Total owner occupied units	Household characteristics			Total owner occupied units	Household characteristics			
		Black	Hispanic ¹	Elderly ²		Black	Hispanic ¹	Elderly ²	Below poverty level ³
Total units	56,145	4,310	2,012	13,835	5,103	100.0	100.0	100.0	100.0
Mortgages currently on property:									
None, owned free and clear	23,950	1,742	686	11,475	3,351	42.7	40.4	34.1	32.9
Mortgaged	32,195	2,588	1,326	2,380	1,753	57.3	59.6	65.9	67.1
Two mortgages or more	3,283	281	182	90	158	5.8	6.1	8.1	7.3
Units with mortgages	32,195	2,588	1,326	2,380	1,753	100.0	100.0	100.0	100.0
Type of primary mortgage:									
FHA	4,586	788	288	270	328	14.2	29.9	21.7	11.4
VA	3,197	357	129	191	102	9.9	13.9	9.7	8.1
Farmers Home Administration	599	110	20	63	116	1.9	4.3	1.5	2.7
Other types	22,570	1,177	827	1,644	1,065	70.1	45.8	62.4	69.7
Not reported	1,253	185	61	182	141	3.9	6.0	4.6	8.1
Payment plan of primary mortgage:									
Fixed payment, self amortizing	25,363	2,088	1,105	1,795	1,268	78.8	81.3	83.3	76.1
Adjustable rate mortgage	2,181	97	65	59	86	6.8	3.8	4.8	2.5
Graduated payment mortgage	585	27	27	9	10	1.8	1.1	2.0	.4
Other	4,038	357	131	496	389	12.5	13.9	9.8	21.0
Term of primary mortgage:									
Less than 18 years	4,913	283	204	298	406	15.3	11.0	15.4	12.6
18-22 years	3,978	294	141	294	161	12.4	11.4	10.6	12.5
23-27 years	4,103	183	123	254	140	12.7	7.1	9.3	10.8
28 years or more	14,403	1,393	689	821	574	44.7	54.2	52.0	34.8
Other (incl. variable) ⁴	4,798	416	189	691	472	14.9	16.2	12.7	29.3
Current interest rate:									
Less than 6 percent	1,880	89	57	240	100	5.8	3.9	4.3	10.2
6.0-7.9 percent	3,377	229	113	329	112	10.5	8.9	8.5	13.9
8.0-9.9 percent	5,697	332	218	324	192	17.7	12.9	16.3	13.7
10.0-11.9 percent	4,547	296	155	125	147	14.1	11.5	11.7	5.3
12.0-13.9 percent	4,327	234	208	118	154	13.4	9.1	15.7	4.9
14.0 percent or more	1,155	111	69	47	64	3.6	4.3	5.2	2.0
Other ⁴	11,212	1,264	508	1,179	983	34.8	48.2	38.3	50.0
Median rate (percent)	8.3	9.4	8.8	7.6	9.3	(X)	(X)	(X)	(X)

X Not applicable. ¹ Hispanic persons may be of any race. ² Householders 65 years old and over. ³ Household poverty derived by applying to households the Social Security Administration's poverty index for persons. ⁴ Includes units that did not know or did not report.

Source of tables 1246 and 1247: U.S. Bureau of the Census, Current Housing Reports, series H-150-85, American Housing Survey.

Heating Equipment—Appliances

709

No. 1248. HEATING EQUIPMENT AND FUELS FOR OCCUPIED UNITS: 1950 TO 1985

[See also table 1241 for more data on heating equipment]

ITEM	NUMBER (1,000)					PERCENT DISTRIBUTION				
	1950	1960	1970	1980	1985	1950	1960	1970	1980	1985
Occupied units, total	42,826	53,024	63,445	80,390	88,425	100.0	100.0	100.0	100.0	100.0
Heating equipment:										
Warm air furnace.....	11,508	17,378	27,515	39,279	47,256	126.9	32.8	43.4	48.9	53.4
Heat pumps.....	10,071	11,990	13,211	13,859	13,929	23.5	22.6	20.8	17.2	15.8
Steam or hot water.....										
Floor, wall, or pipeless furnace.....	(1)	6,088	5,552	4,693	5,496	(1)	11.5	8.8	5.8	6.2
Built-in electric units.....	—	664	3,236	6,370	5,733	—	1.3	5.1	7.9	6.5
Room heaters with flue.....	2 15,399	2 11,183	7,209	6,098	2,938	2 36.0	2 21.1	11.4	7.6	3.3
Room heaters without flue.....	5,268	5,218	3,558	2,736	2,639	12.3	9.8	5.6	3.4	3.0
Fireplaces, stoves, portable heaters or other.....	(2)	(2)	2,766	3,977	6,876	(2)	(2)	4.4	4.9	7.8
None.....	581	503	398	541	529	1.4	.9	.6	.7	.6
House heating fuel:										
Utility gas.....	11,387	22,861	35,014	42,658	45,328	26.6	43.1	55.2	53.1	51.3
Fuel oil, kerosene, etc.....	9,696	17,158	16,473	14,655	13,505	22.6	32.4	26.0	18.2	15.3
Electricity.....	283	923	4,876	14,768	18,361	.7	1.8	7.7	18.3	20.8
Bottled, tank, or LP gas.....	787	2,686	3,807	4,535	3,584	1.8	5.1	6.0	5.6	4.1
Wood and other fuel.....	4,855	2,460	1,060	2,729	6,670	11.3	4.6	1.7	3.4	7.5
Coal or coke.....	14,828	6,456	1,821	504	447	34.6	12.2	2.9	.6	.5
None.....	999	478	395	541	(NA)	2.3	.9	.6	.7	(NA)
Cooking fuel:										
Electricity.....	6,403	16,351	25,768	41,906	49,057	15.0	30.8	40.6	52.1	55.5
Gas ³	25,501	33,787	36,558	37,944	38,609	59.6	63.7	57.6	47.2	43.7
Other fuel.....	10,796	2,603	908	398	305	25.2	4.9	1.4	.5	.3
None.....	124	280	213	142	(NA)	.3	.5	.3	.2	(NA)

- Represents zero. NA Not available.

¹ Floor, wall, or pipeless furnace included in "Warm air furnace."

² Fireplaces, stoves, or portable heaters included in "Room heaters with flue."

³ Includes utility, bottled, tank, and LP gas.

Source: U.S. Bureau of the Census, *Census of Housing, 1960*, vol. 1, and *1980, vol. 1; Current Housing Reports*, series H-150-85, American Housing Survey, 1985.

NO. 1249. APPLIANCES USED BY HOUSEHOLDS, BY REGION AND FAMILY INCOME: 1984

[In millions, except percent. As of November. Represents appliances possessed and generally used by the household. Based on Residential Energy Consumption Survey; see Appendix III. For composition of regions, see fig. I, inside front cover]

TYPE OF APPLIANCE	HOUSEHOLDS USING APPLIANCE		REGION				FAMILY INCOME IN 1984			
	Number	Percent of total	North-east	Mid-west	South	West	Under \$15,000	\$15,000-\$24,999	\$25,000-\$34,999	\$35,000 and over
Total households	86.3	100.0	18.3	21.6	29.3	17.1	35.0	17.4	15.3	18.7
Air conditioners: Room ¹	26.8	31.0	7.5	7.2	9.3	2.8	10.7	6.0	5.2	4.9
Central system.....	24.6	28.5	1.8	5.8	13.3	3.7	6.6	4.4	5.1	8.4
Clothes washer.....	63.1	73.1	13.4	15.8	22.0	12.0	21.0	12.5	12.4	17.2
Clothes dryer.....	53.1	61.5	10.7	14.2	17.8	10.5	14.7	10.8	11.6	18.3
Dehumidifier.....	7.5	8.7	2.8	3.6	1.1	(S)	.9	1.5	2.1	2.9
Dishwasher.....	32.5	37.6	6.4	6.6	11.5	7.9	6.1	5.7	7.5	13.2
Evaporative cooler ²	3.2	3.8	(S)	(S)	.5	2.6	1.3	.6	.6	.5
Freezer.....	31.7	36.7	5.3	9.2	11.7	5.6	10.5	5.9	6.2	9.1
Humidifier.....	11.3	13.1	2.8	6.2	1.6	.8	2.5	2.0	2.6	4.3
Microwave oven ³	29.6	34.3	4.0	8.6	10.1	7.0	5.9	5.9	7.4	10.4
Motor vehicles: One.....	30.7	35.6	6.8	7.7	10.0	6.2	17.0	7.3	3.9	2.5
Two or more.....	44.6	51.7	7.9	11.2	15.9	9.5	8.8	9.1	10.9	15.8
Outdoor gas grill.....	11.5	13.4	3.6	2.6	3.5	1.8	1.5	1.7	2.8	5.5
Outdoor gas light.....	1.2	1.4	2	5	5	(S)	(S)	.2	.2	.4
Oven: Electric.....	42.4	49.1	7.2	10.0	15.8	9.4	14.4	8.5	8.2	11.2
Gas.....	35.8	41.5	9.7	9.8	9.7	6.7	16.5	7.4	5.9	6.1
Portable electric heater.....	8.9	10.3	1.4	1.5	3.7	2.3	3.6	1.7	1.9	1.6
Portable kerosene heater.....	5.3	6.1	1.3	1.2	2.5	2	1.7	1.3	1.0	1.4
Ranges: Electric.....	46.5	53.9	7.7	11.2	18.2	9.4	16.2	9.2	9.0	12.1
Gas.....	39.0	45.2	10.4	10.2	10.9	7.6	18.3	8.1	6.1	6.7
Refrigerator: Frost-free.....	53.9	62.4	9.5	12.8	19.8	11.8	17.1	10.6	10.8	15.3
Non frost-free ⁵	32.2	37.3	8.7	8.8	9.5	5.2	17.6	6.7	4.5	3.4
Television set: Color.....	75.9	88.0	16.3	19.3	25.1	15.2	27.7	15.6	14.4	18.2
Black and white.....	37.3	43.2	9.0	9.0	13.3	6.0	14.6	7.1	6.7	8.8
Water heater: ⁴ Gas.....	41.3	47.8	7.0	12.5	11.8	10.0	14.8	8.1	8.0	10.5
Electric.....	27.9	32.3	3.9	4.8	15.0	4.3	11.4	5.8	4.7	6.0
Other fuel.....	2.8	3.2	2.6	(S)	.2	(S)	.7	.5	.6	.7
Whole house cooling fan.....	6.7	7.8	1.3	1.7	3.1	.7	1.2	1.3	1.7	2.5
Window or ceiling fan.....	30.6	35.5	6.0	7.9	13.8	3.0	11.2	6.5	6.1	6.9

S Figure does not meet publication standards. ¹ Includes small amount of households that have both central air conditioners and room units. ² An air-cooling unit used in dry climates that turns air into moist, cool air by saturating the air with water vapor. ³ Microwave is first or second most used oven. ⁴ All motorized vehicles used by U.S. households for personal transportation excluding motorcycles, mopeds, large trucks, and buses. ⁵ Includes refrigerators without freezer compartments.

⁶ Excludes water heaters that serve more than one household.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Housing Characteristics, 1984*, October 1986.

Construction and Housing

No. 1250. OCCUPIED HOUSING UNITS—HOUSING INDICATORS, BY SELECTED CHARACTERISTICS OF THE HOUSEHOLDER AND TENURE: 1985

[In thousands of units. Based on the American Housing Survey; see Appendix III]

CHARACTERISTIC	Total occupied units	TENURE		BLACK		HISPANIC ORIGIN ¹		ELDERLY ²		RECENT MOVERS ³	
		Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter
Total units.....	88,425	56,145	32,280	4,310	5,593	2,012	3,066	13,835	6,062	4,664	12,166
Amenities:											
Porch, deck, balcony or patio.....	64,120	45,569	18,551	3,202	2,968	1,503	1,339	11,091	2,484	3,608	7,382
Usable fireplace.....	25,353	21,674	3,679	894	342	568	201	3,916	295	1,909	1,718
Separate dining room.....	34,184	26,496	7,688	2,041	1,275	828	592	6,300	998	2,001	2,712
With 2 or more living rooms or recreation rooms.....	28,228	24,920	3,307	1,515	405	648	174	4,916	361	1,881	1,171
Garage or carport with home.....	48,727	38,367	9,360	2,128	814	1,375	843	9,686	1,093	2,971	3,575
Cars available:											
None.....	13,931	4,830	9,101	755	2,622	223	1,175	2,572	2,792	301	2,688
1 car.....	42,270	25,924	16,346	1,910	2,320	905	1,387	8,205	2,028	2,189	6,491
2 cars.....	24,978	19,158	5,820	1,228	594	680	419	2,598	223	1,845	2,568
3 or more cars.....	7,247	6,233	1,014	419	57	204	86	460	19	330	419
Trucks or vans available:											
None.....	62,831	35,783	27,047	3,357	5,243	1,195	2,648	11,022	4,806	2,906	9,919
1.....	21,804	17,125	4,679	878	334	707	395	2,498	247	1,538	2,011
2 or more.....	3,781	3,237	554	78	16	110	22	314	10	220	237
Internal deficiencies:											
Holes in floors.....	1,483	475	1,007	143	406	40	165	132	100	42	301
Open cracks or holes.....	5,572	2,009	3,583	422	1,114	120	518	470	332	178	1,117
Broken plaster or peeling paint (interior of unit).....	4,992	1,955	3,037	311	807	103	442	483	367	134	758
No electrical wiring.....	17	10	7	7	7	5	5	2	5	5	5
Exposed wiring.....	2,009	904	1,105	128	325	51	163	329	182	80	344
Rooms without outlet.....	2,502	1,210	1,292	158	397	48	174	487	195	83	408
Water leakage ⁴	23,110	17,694	11,416	1,716	2,454	581	1,072	3,515	1,910	1,511	3,610

¹ Represents zero. ² Persons of Hispanic origin may be of any race. ³ Householders 65 years old and over. ⁴ Recent movers are householders that moved during the 12 months prior to interview. ⁵ During the 12 months prior to the survey.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-85, American Housing Survey.

No. 1251. OWNER OCCUPIED HOUSING UNITS—HOME IMPROVEMENTS AND REPAIRS, BY SELECTED CHARACTERISTICS OF THE HOUSEHOLDER: 1985

(Covers only units performing repairs, improvements, or alterations in the 2 years prior to the survey. Based on the American Housing Survey; see Appendix III)

CHARACTERISTIC	Total owner occupied units	NUMBER (1,000)				PERCENT OF TOTAL OWNER OCCUPIED UNITS			
		Household characteristics				Total occupied units	Household characteristics		
		Black	Hispanic ¹	Elderly ²	Below poverty level ³		Black	Hispanic ¹	Elderly ²
Total units.....	56,145	4,310	2,012	13,835	5,103	100.0	100.0	100.0	100.0
Roof replaced.....	9,181	800	418	2,624	950	16.3	18.6	20.8	19.0
Work mostly done by others.....	6,463	616	246	2,151	675	11.5	14.3	12.2	15.5
Costing more than \$500.....	5,883	447	237	1,706	477	10.4	10.4	11.8	9.3
Additions built.....	3,502	233	141	414	264	6.2	5.4	7.0	3.0
Work mostly done by others.....	1,524	130	60	282	90	2.7	3.0	3.0	1.8
Costing more than \$500.....	2,623	169	85	308	161	4.7	3.9	4.2	2.2
Kitchen remodeled or added.....	4,631	314	184	670	298	8.2	7.3	9.1	4.8
Work mostly done by others.....	2,114	199	76	477	163	3.8	4.6	3.8	3.2
Costing more than \$500.....	2,959	179	96	431	125	5.3	4.2	4.8	3.1
Bathroom remodeled or added.....	5,534	388	239	718	376	9.9	8.6	11.9	5.2
Work mostly done by others.....	2,106	200	88	468	173	3.8	4.6	4.4	3.4
Costing more than \$500.....	2,741	159	106	340	134	4.9	3.7	5.3	2.5
Siding replaced or added.....	3,293	238	109	544	229	5.9	5.5	5.4	3.9
Work mostly done by others.....	1,942	166	68	396	140	2.5	3.9	3.4	2.7
Costing more than \$500.....	1,838	137	52	341	94	3.3	3.2	2.6	1.8
Storm doors/windows installed.....	8,820	696	187	1,476	595	15.7	16.1	18.3	10.7
Work mostly done by others.....	4,476	477	87	1,047	376	8.0	11.1	4.3	7.8
Costing more than \$500.....	3,006	230	68	567	143	5.4	5.3	3.4	4.1
Major equipment replaced or added.....	5,063	292	140	955	305	9.0	6.8	7.0	6.0
Work mostly done by others.....	3,777	222	110	800	206	6.7	5.2	5.5	5.8
Costing more than \$500.....	3,825	174	89	731	167	6.5	4.0	4.9	3.3
Insulation added.....	6,695	350	256	1,075	448	12.4	8.1	12.7	7.8
Work mostly done by others.....	2,965	201	157	705	260	5.3	4.7	7.8	5.1
Costing more than \$500.....	1,696	69	65	263	67	3.0	1.6	3.2	1.3

¹ Persons of Hispanic origin may be of any race. ² Householders 65 years old and over. ³ Household poverty derived by applying to households the Social Security Administration's poverty index for persons.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-85, American Housing Survey.

Residential Alterations and Repairs—Vacancy Rates

711

NO. 1252. EXPENDITURES BY RESIDENTIAL PROPERTY OWNERS FOR IMPROVEMENTS AND MAINTENANCE AND REPAIRS, BY TYPE OF PROPERTY AND ACTIVITY: 1970 TO 1987

[In millions of dollars]

YEAR AND TYPE OF EXPENDITURE	Total	1-unit properties with owner occupant	Other properties	ADDITIONS AND ALTERATIONS			Major replacements	Maintenance and repairs		
				Total	To structures					
					Additions	Alterations				
1970.....	14,770	9,469	5,301	6,246	1,411	3,539	1,298	2,629		
1975.....	25,239	15,684	9,556	10,997	1,971	6,844	2,192	4,484		
1976.....	29,034	18,854	10,180	12,314	3,493	6,267	2,454	5,341		
1977.....	31,280	21,761	9,519	14,237	2,655	8,505	3,077	5,599		
1978.....	37,461	24,189	13,272	16,458	3,713	8,443	4,302	8,094		
1979.....	42,231	26,280	19,851	18,285	3,280	8,642	5,363	8,988		
1980.....	46,338	31,481	14,857	21,336	4,183	11,193	5,960	9,816		
1981.....	46,351	30,201	16,150	20,414	3,164	11,947	5,303	9,915		
1982.....	45,291	29,778	15,512	18,774	2,841	10,711	5,423	9,707		
1983.....	49,295	32,524	16,771	20,271	4,739	11,673	3,859	10,895		
1984.....	69,784	43,781	26,003	27,822	6,007	14,486	7,329	13,067		
1985, total¹.....	80,267	47,742	32,525	28,775	3,986	17,599	7,211	16,134		
Heating and air-conditioning ²	5,096	3,287	1,809	1,121	(NA)	1,121	(NA)	2,322		
Plumbing.....	8,120	4,029	4,091	1,502	(NA)	1,502	(NA)	3,115		
Roofing.....	7,497	4,428	3,069	(NA)	(NA)	(NA)	(NA)	3,503		
Painting.....	11,267	5,610	5,457	(NA)	(NA)	(NA)	(NA)	2,411		
1986, total¹.....	91,274	54,288	36,976	38,608	7,377	21,192	10,040	16,695		
Heating and air-conditioning ²	6,232	3,993	2,239	974	(NA)	974	(NA)	3,399		
Plumbing.....	8,461	3,791	4,670	1,484	(NA)	1,484	(NA)	3,408		
Roofing.....	7,685	3,834	3,851	(NA)	(NA)	(NA)	(NA)	3,569		
Painting.....	11,170	5,673	5,497	(NA)	(NA)	(NA)	(NA)	11,170		
1987, total¹.....	94,082	54,791	39,291	39,978	9,557	21,641	8,779	15,875		
Heating and air-conditioning ²	6,410	3,932	2,478	1,534	(NA)	1,534	(NA)	2,537		
Plumbing.....	8,510	3,830	4,680	1,856	(NA)	1,856	(NA)	3,220		
Roofing.....	6,020	2,487	3,533	(NA)	(NA)	(NA)	(NA)	3,457		
Painting.....	11,504	5,704	5,800	(NA)	(NA)	(NA)	(NA)	11,504		

NA Not available.

¹ Includes types of expenditures not separately specified.

² Central air-conditioning.

Source: U.S. Bureau of the Census, *Construction Reports*, series C50.

NO. 1253. VACANCY RATES FOR HOUSING UNITS—CHARACTERISTICS: 1982 TO 1987

[In percent. Annual averages. Based on Current Population Survey and Quarterly Household Survey. Rate is relationship between vacant housing for rent or for sale and the total rental and homeowner supply, which comprises occupied units, units rented or sold and awaiting occupancy, and vacant units available for rent or sale. For composition of regions, see fig. I, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series N 249-258.]

RENTAL UNITS	1982	1983	1984	1985	1986	1987	HOMEOWNER UNITS	1982	1983	1984	1985	1986	1987
Total rental units.....	5.3	5.7	5.9	6.5	7.3	7.7	Total homeowner units.....	1.5	1.5	1.7	1.7	1.6	1.7
Inside SMSAs.....	5.0	5.5	5.7	6.3	7.2	7.7	Inside SMSAs.....	1.5	1.6	1.8	1.7	1.5	1.6
Outside SMSAs.....	6.2	6.3	6.4	7.1	8.2	7.8	Outside SMSAs.....	1.5	1.5	1.8	1.9	1.8	1.9
Northeast.....	3.7	4.0	3.7	3.5	3.9	4.1	Northeast.....	1.0	1.0	.8	1.0	1.0	1.2
Midwest.....	6.3	6.1	5.9	5.9	6.9	6.8	Midwest.....	1.6	1.5	1.6	1.6	1.5	1.4
South.....	5.8	6.9	7.9	9.1	10.1	10.9	South.....	1.6	1.8	2.0	2.1	2.1	2.0
West.....	5.4	5.2	5.2	6.2	7.1	7.3	West.....	1.9	1.8	2.0	2.1	1.6	1.8
Units in structure:							Units in structure:						
1 unit.....	3.6	3.7	3.8	3.8	3.9	4.0	1 unit.....	1.2	1.3	1.4	1.4	1.3	1.4
2 or more.....	6.2	6.7	7.0	7.9	9.2	9.7	2 or more.....	6.1	5.2	6.1	6.6	5.8	5.8
5 or more.....	6.5	7.1	7.5	8.8	10.4	11.2	5 or more.....	12.2	8.8	10.6	10.1	8.3	8.6
Units with:							Units with:						
3 rooms or less.....	7.2	7.2	7.5	8.8	10.2	10.7	3 rooms or less.....	3.9	3.3	4.8	5.8	5.2	5.5
4 rooms.....	5.0	5.7	6.3	6.8	8.0	8.6	4 rooms.....	2.4	2.4	2.6	2.3	2.3	2.5
5 rooms.....	4.0	4.4	4.6	5.0	5.3	5.4	5 rooms.....	1.4	1.4	1.6	2.0	1.7	1.7
6 rooms or more....	3.5	3.7	3.5	3.2	3.3	3.3	6 rooms or more....	1.2	1.3	1.4	1.4	1.3	1.3
Monthly rent:							Value:						
Less than \$100.....	3.4	2.5	2.7	3.5	2.8	2.2	Less than \$19,999.....	2.3	2.3	2.5	2.5	2.6	3.5
\$100 or more.....	5.4	5.7	5.9	6.6	7.7	9.0	\$20,000 or more....	1.2	1.2	1.3	1.3	1.2	1.3
Year built:							Year built:						
1960 or later.....	5.3	5.9	6.6	7.9	9.5	11.2	1980 or later.....	1.8	1.8	2.0	2.0	1.8	1.8
1965 or later.....	5.6	6.2	6.6	7.4	8.7	9.8	1985 or later.....	2.1	1.9	2.1	2.0	1.8	1.8
1940-1959.....	5.2	5.4	5.6	6.2	6.9	7.7	1940-1959.....	.9	1.1	1.2	1.2	1.2	1.1
1939 or earlier.....	5.5	5.8	5.3	5.0	5.0	5.1	1939 or earlier.....	1.6	1.7	1.7	1.8	1.8	1.7
Plumbing:							Plumbing:						
With all facilities....	5.1	5.5	5.7	6.3	7.2	7.5	With all facilities....	1.5	1.5	1.6	1.7	1.6	1.6
Lacking facilities....	12.2	11.8	13.6	13.8	14.5	16.2	Lacking facilities....	3.9	3.6	5.3	7.5	6.0	5.6

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-111.

Construction and Housing

NO. 1254. RECENT HOME BUYERS—GENERAL CHARACTERISTICS AND DOWNPAYMENTS:
1977 TO 1987

[As of October. Based on a sample survey; subject to sampling variability]

ITEM	UNIT	1977	1979	1980	1981	1982	1983	1984	1985	1986	1987
Median price of house purchased.....	Dollars...	49,320	58,100	68,714	78,220	82,500	90,000	88,400	90,400	93,680	99,280
First-time buyers.....	Dollars...	43,160	50,800	61,450	63,180	68,900	73,100	81,500	75,100	74,700	84,730
Repeat buyers ¹	Dollars...	58,730	64,600	75,750	82,220	98,300	101,800	100,400	106,200	114,860	115,430
Average monthly mortgage payment.....	Dollars...	361	449	599	694	792	794	868	896	852	939
Percent of income.....	Percent...	250	28.2	32.4	35.5	33.0	32.5	30.3	30.0	28.6	29.3
Percent buying—	Percent...										
New houses.....	Percent...	12.8	17.8	22.4	25.2	23.2	26.4	22.3	23.8	25.7	23.8
Existing houses.....	Percent...	87.2	82.2	77.8	74.8	76.8	73.8	77.7	76.2	74.3	76.2
Single-family houses.....	Percent...	90.2	87.5	82.4	78.3	78.6	87.8	89.9	87.0	85.1	87.3
Condominiums ²	Percent...	9.8	12.1	17.6	20.3	23.4	12.2	10.1	10.6	14.2	12.5
For the first time.....	Percent...	48.1	36.6	32.9	38.4	40.6	40.5	37.7	36.6	35.5	36.8
Average age of first-time buyers.....	Years....	28.2	28.4	28.3	28.4	28.6	28.9	29.1	28.4	30.9	29.6
Average age of repeat buyers ¹	Years....	37.9	34.7	36.4	36.4	37.1	37.3	37.8	38.4	39.5	39.1
Downpayment to sales price.....	Percent...	28.1	24.8	28.0	24.1	22.4	22.9	20.9	24.8	23.4	27.2
First-time buyers.....	Percent...	19.2	17.6	20.5	19.4	15.1	15.7	13.2	11.4	13.4	20.4
Repeat buyers ¹	Percent...	35.0	28.0	32.7	27.1	27.3	27.8	25.6	32.7	28.9	31.3

¹ Buyers who previously owned a home.² Includes multiple-family houses.Source: Chicago Title Insurance Company, Chicago, IL, *The Guarantor*, bimonthly. (Copyright.)NO. 1255. VOLUME OF LONG-TERM MORTGAGE LOANS ORIGINATED, BY TYPE OF PROPERTY,
1970 TO 1987, AND BY LENDER, 1987

[In billions of dollars. Covers credit extended in primary mortgage markets for financing real estate acquisitions]

TYPE OF PROPERTY	1970	1975	1980	1982	1983	1984	1985	1986	1987, BY LENDER				
									Total ¹	Sav- ings and loan	Com- mer- cial banks	Mort- gage com- panies	Mut- ual sav- ings
Loans, total.....	59.8	120.7	197.2	153.9	295.6	319.2	383.3	662.1	671.6	210.4	248.5	115.4	45.8
1-4 unit family home.....	35.6	77.9	133.7	97.0	219.8	202.7	243.0	455.1	449.5	173.8	124.6	110.1	34.2
New units.....	12.6	24.6	49.1	30.6	47.4	53.7	53.6	82.8	89.5	28.2	19.3	36.1	4.1
Existing units.....	23.0	53.3	84.6	66.4	154.5	150.0	189.4	372.2	360.0	145.7	105.3	74.0	30.1
Multifamily residential.....	8.8	10.7	12.5	11.4	21.4	27.6	31.9	49.9	45.0	17.7	8.3	2.4	4.8
New units.....	7.0	5.8	8.6	6.1	8.8	11.1	10.6	15.3	14.1	1.8	1.5	.6	.7
Existing units.....	1.8	4.9	3.9	5.3	12.6	16.5	21.3	34.6	30.9	15.9	6.8	1.8	4.1
Non-residential.....	12.5	24.2	35.9	34.3	62.4	77.3	99.4	147.4	168.7	18.8	110.5	2.9	6.8
Farm properties.....	3.0	7.9	15.0	11.2	9.9	10.5	9.0	9.8	8.4	-	5.2	-	-

¹ Represents zero.² Includes life insurance companies and other lenders not shown separately.Source: U.S. Dept. of Housing and Urban Development, *Survey of Mortgage Lending Activity, 1970-1979*, and monthly and quarterly press releases based on the Survey of Mortgage Lending Activity.

NO. 1256. CHARACTERISTICS OF CONVENTIONAL FIRST MORTGAGE LOANS FOR PURCHASE OF SINGLE-FAMILY HOMES: 1970 TO 1988

[Annual averages, except as indicated. Refers to loans originated directly (rather than through correspondents) by savings and loan associations, mortgage companies, commercial banks, or mutual savings banks]

LOAN CHARACTERISTIC	UNIT	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988, June
NEW HOMES														
Contract interest rate.....	Percent...	8.3	8.8	9.3	10.5	12.3	14.1	14.5	12.1	11.9	11.1	9.7	8.9	8.9
Initial fees, charges ¹	Percent...	1.03	1.53	1.39	1.66	2.09	2.66	2.98	2.39	2.66	2.52	2.50	2.26	2.16
Term to maturity.....	Years...	25.1	27.0	28.0	28.5	28.1	27.7	27.5	26.7	27.8	27.0	26.8	27.8	27.5
Loan to price ratio.....	Percent...	71.7	76.2	75.2	73.8	73.2	74.8	76.8	77.3	78.6	77.1	75.3	75.2	73.8
Purchase price.....	\$1,000...	35.5	44.7	62.8	74.4	83.2	90.3	94.1	93.9	96.8	105.0	119.8	137.2	152.0
EXISTING HOMES														
Contract interest rate.....	Percent...	8.2	9.0	9.4	10.6	12.5	14.5	14.8	12.3	12.0	11.2	9.8	8.9	9.0
Initial fees, charges ¹	Percent...	.92	1.16	1.26	1.44	1.81	2.27	2.35	2.40	2.64	2.50	2.13	2.02	1.86
Term to maturity.....	Years...	22.8	24.2	26.4	27.1	26.9	25.9	24.9	25.9	26.5	25.5	25.4	26.8	27.7
Loan to price ratio.....	Percent...	71.1	73.5	75.0	74.0	73.5	72.9	71.9	74.3	76.8	75.7	73.9	75.4	77.2
Purchase price.....	\$1,000...	30.0	39.2	54.5	64.8	68.3	68.5	70.7	79.3	82.2	92.7	108.5	117.7	123.7

¹ Rate applies to any general or specific charges paid by borrower or seller, in order to obtain a loan, except those for mortgage, credit, life, or property insurance; for property transfer; and for title search and insurance.Source: U.S. Federal Home Loan Bank Board, *Savings and Home Financing Source Book*, annual, and monthly news releases.

No. 1257. LOW-INCOME PUBLIC HOUSING UNITS, BY PROGRESS STAGE: 1960 TO 1987

[In thousands. As of Dec. 31. Housing for the elderly intended for persons 62 years old or over, disabled, or handicapped. Includes Puerto Rico and Virgin Islands. Covers units subsidized by HUD under annual contributions contracts. See also *Historical Statistics, Colonial Times to 1970*, series N 186-191]

YEAR	Total	Occupied units ¹	Under construction	Other ²	YEAR	Total	Occupied units ¹	Under construction	Other ²
1960	593.3	478.2	36.4	78.8	1983	1,483.3	1,262.5	86.7	134.1
Elderly	18.9	1.1	4.1	13.7	Elderly	410.0	338.4	35.7	35.9
1970	1,155.3	893.5	126.8	135.0	1984	1,368.7	1,312.9	24.0	31.8
Elderly	249.4	143.4	65.7	40.3	Elderly	373.0	351.4	9.4	12.2
1980	1,321.1	1,195.6	20.9	104.8	1985	1,378.0	1,344.6	9.6	19.5
Elderly	358.3	317.7	11.5	29.1	Elderly	373.5	361.1	2.1	10.3
1981	1,404.0	1,229.3	51.5	123.2	1986	1,355.1	1,333.8	12.1	19.3
Elderly	385.4	327.7	21.8	35.8	Elderly	372.0	369.8	3.0	6.0
1982	1,432.2	1,231.4	68.7	134.1	1987	1,371.7	1,339.1	9.5	23.2
Elderly	392.0	328.4	27.7	35.9	Elderly	373.4	365.4	1.6	6.5

¹ Under management or available for occupancy. ² To be constructed or to go directly "under management" because no rehabilitation needed.

Source: U.S. Dept. of Housing and Urban Development, unpublished data.

No. 1258. RESIDENTIAL LOANS UNDERWRITTEN BY FHA: 1970 TO 1987

[In millions of dollars. Figures are gross amount of insurance written; do not take account of principal repayments on previously insured loans. See also *Historical Statistics, Colonial Times to 1970*, series N 291-297]

LOAN	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
FHA-Insured loans.....	11,982	7,941	22,848	22,301	14,976	14,105	31,651	17,749	28,378	61,758	88,561
Home mortgages: New properties.....	2,667	1,148	3,409	4,071	3,177	2,444	4,209	3,704	3,989	7,129	10,365
Existing properties.....	5,447	5,017	14,758	12,387	7,102	5,643	22,363	10,821	19,965	49,772	71,516
Project type mortgages.....	3,251	978	2,719	4,197	3,024	4,464	3,227	1,867	3,219	3,708	3,780
Property improvement loans ¹	617	798	1,962	1,846	1,674	1,554	1,852	1,357	1,195	1,149	900

¹ Not ordinarily secured by mortgagors. Includes mobile home loans.

Source: U.S. Dept. of Housing and Urban Development, 1970-1979, *HUD Statistical Yearbook*; thereafter, unpublished data.

No. 1259. OFFICE BUILDINGS—VACANCY RATES, 1980 TO 1988, AND STATUS OF SUPPLY, 1988, BY MAJOR CITY

[As of December; except 1988, as of June. Excludes government owned and occupied, owner-occupied, and medical office buildings]

CITY	VACANCY RATE FOR EXISTING SPACE (percent)									SUPPLY STATUS, 1988 (mil. sq. ft.)			
	1980	1981	1982	1983	1984	1985	1986	1987	1988	Existing space		Space under construction	
										Total	Available for lease	Total	Available for lease
Total ¹	4.6	5.4	11.0	13.5	15.5	16.9	18.6	19.0	19.2	1,676.2	359.3	117.9	90.0
Atlanta, GA.....	10.0	13.6	16.8	13.7	14.5	21.0	20.1	19.6	18.7	73.8	13.8	4.9	3.6
Baltimore, MD.....	7.2	3.2	5.9	6.4	11.9	11.5	15.9	15.8	14.9	24.5	3.6	3.4	2.3
Boston, MA.....	3.8	4.7	7.8	4.4	19.0	19.3	13.0	12.6	13.0	102.7	13.4	6.4	3.5
Charlotte, NC.....	(NA)	(NA)	(NA)	(NA)	16.7	16.7	15.5	15.1	17.3	16.0	2.8	1.2	.8
Chicago, IL.....	7.0	6.4	6.9	12.6	14.8	15.5	19.5	17.0	16.7	172.0	25.7	13.2	8.5
Cincinnati, OH.....	(NA)	(NA)	(NA)	(NA)	(NA)	17.7	13.3	13.1	20.8	2.7	1.2	.8	.6
Dallas, TX.....	8.6	8.4	18.6	21.5	18.7	23.0	30.9	29.1	31.2	115.7	36.1	1.8	.6
Denver, CO.....	6.6	4.1	22.6	24.1	20.6	24.7	25.1	27.9	28.3	69.2	19.6	-	-
Fort Worth, TX.....	(NA)	(NA)	(NA)	(NA)	24.1	22.5	24.7	26.9	26.5	20.0	5.3	1.8	.4
Houston, TX.....	4.0	7.6	20.3	26.8	25.0	27.6	30.6	31.8	31.2	146.1	45.5	.1	.1
Jacksonville, FL.....	(NA)	(NA)	(NA)	(NA)	(NA)	17.2	14.7	14.3	12.9	1.8	.7	.5	.5
Kansas City, MO.....	4.2	6.7	12.4	15.7	18.6	16.2	18.2	21.0	21.2	6.8	.6	.6	.5
Los Angeles, CA.....	.9	5.5	12.3	14.0	20.4	15.3	13.2	19.0	16.8	213.3	35.9	15.2	11.6
Memphis, TN.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	22.2	23.5	15.8	3.7	.6	.5
Miami, FL.....	2.4	5.0	6.3	14.0	20.8	20.9	25.2	26.1	26.5	28.1	7.5	.8	.3
Milwaukee, WI.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	16.8	21.6	16.7	3.6	.5	.4
New Orleans, LA.....	(NA)	3.7	7.4	19.0	22.4	21.8	25.5	24.3	24.3	22.9	5.6	.4	.2
New York, NY ²	3.1	3.6	4.9	5.0	6.8	7.9	8.9	9.7	11.5	225.0	25.8	14.5	10.5
Philadelphia, PA.....	6.3	5.7	12.8	9.6	9.0	14.5	15.5	16.5	15.7	59.6	9.3	9.7	5.6
Pittsburgh, PA.....	1.2	2.8	7.1	7.8	14.2	(NA)	12.0	12.3	14.6	45.1	6.6	.5	.4
St. Louis, MO.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	15.6	15.9	27.5	4.4	2.7	2.0
San Antonio, TX.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	30.2	19.1	.5	.1
San Diego, CA.....	(NA)	(NA)	25.3	22.9	21.8	24.7	25.4	22.8	21.1	28.6	6.0	4.0	3.5
San Francisco, CA.....	.4	4.2	7.3	11.3	9.0	13.7	16.6	15.0	17.8	52.0	9.3	2.0	1.8
Washington, DC.....	2.5	1.7	6.3	7.2	9.6	9.0	13.6	13.4	13.2	136.2	17.9	19.0	15.6

¹ Represents zero. NA Not available. ² Refers to Manhattan.

Source: The Office Network*, Houston, TX, 1980-1985, *National Office Market Report*, semi-annual; thereafter, *International Office Market Report**, semi-annual. (Copyright.)

Construction and Housing

NO. 1260. COMMERCIAL BUILDINGS—SELECTED CHARACTERISTICS, BY SQUARE FOOTAGE OF FLOORSPACE: 1986

[Excludes buildings 1,000 square feet or smaller. Building type based on predominant activity in which the occupants were engaged. Based on a sample survey of building representatives conducted between January and April 1986; therefore, subject to sampling variability. For composition of regions, see fig. I, Inside front cover.]

CHARACTERISTIC	Number of buildings (1,000)	FLOORSPACE (mil. sq. ft.)						Mean sq. ft. per building (1,000)	Median sq. ft. per building (1,000)	
		Total	Within all buildings having square footage of—	5,000 or less	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 and over	
All buildings	4,154	58,229	6,208	6,881	9,119	8,661	8,559	18,821	14.0	5.0
Region:										
Northeast.....	663	11,830	856	1,358	1,443	1,822	1,525	4,728	17.8	6.0
Midwest.....	1,096	16,034	1,565	2,033	2,431	1,959	2,333	5,714	14.6	5.0
South.....	1,570	19,427	2,528	2,314	3,291	2,938	3,208	5,146	12.4	4.6
West.....	825	10,937	1,261	1,156	1,955	1,842	1,491	3,233	13.3	4.8
Year constructed:										
1984 to 1986.....	309	4,678	442	509	785	804	611	1,526	15.1	5.0
1980 to 1983.....	350	5,205	611	487	803	503	730	2,071	14.9	4.8
1974 to 1979.....	572	8,230	852	978	1,142	1,155	1,482	2,612	14.4	4.8
1971 to 1973.....	243	4,307	332	466	463	528	535	1,982	17.7	5.4
1961 to 1970.....	730	11,469	1,027	1,160	1,639	1,850	1,813	3,980	15.7	5.0
1946 to 1960.....	878	9,712	1,408	1,335	1,694	1,459	1,529	2,287	11.1	4.6
1921 to 1945.....	829	8,584	922	948	1,753	1,312	1,078	2,581	13.7	5.0
1901 to 1920.....	255	3,685	361	489	539	616	469	(S)	14.4	5.0
1900 or before.....	188	2,368	254	490	301	433	(S)	(S)	12.6	6.0
Principal activity within building:										
Assembly.....	575	7,339	798	1,020	1,750	1,181	1,040	(S)	12.8	5.8
Education.....	241	7,321	200	375	749	1,424	1,454	(S)	30.3	10.0
Food sales/service.....	303	1,993	568	(S)	(S)	(S)	(S)	(S)	6.8	3.5
Health care.....	52	2,107	63	(S)	(S)	197	(S)	1,583	40.5	5.0
Lodging.....	137	2,785	138	208	508	546	606	(S)	20.4	8.0
Mercantile/services.....	1,287	12,805	2,062	2,260	2,284	1,622	1,700	2,878	9.9	4.5
Office.....	614	9,546	1,003	989	1,284	1,227	1,047	3,996	15.5	4.7
Public order and safety.....	55	680	78	(S)	218	(S)	(S)	(S)	12.4	5.4
Warehouse.....	549	8,996	774	920	1,143	1,574	1,446	(S)	16.4	5.1
Other.....	103	1,726	182	(S)	279	(S)	352	(S)	16.8	4.8
Vacant.....	238	2,931	365	355	458	531	503	(S)	12.3	4.8
Government owned.....	493	12,187	585	752	1,458	2,053	2,068	5,290	24.7	7.0
Non-government owned.....	3,661	46,041	5,644	6,109	7,661	6,607	6,490	13,529	12.6	4.8
Fuels used alone or in combination:										
Electricity.....	4,013	57,036	5,970	6,674	8,901	8,553	8,241	18,607	14.2	5.0
Natural gas.....	2,278	38,140	3,108	4,132	5,779	5,388	5,279	14,454	16.7	5.6
Fuel oil.....	542	11,163	711	1,038	1,138	1,462	1,431	5,383	20.6	6.0
Propane.....	351	3,382	614	473	586	555	597	(S)	9.8	4.0
Steam or hot water.....	78	4,645	66	(S)	316	436	747	3,043	59.5	19.0
Chilled water.....	15	1,191	(S)	(S)	(S)	(S)	(S)	888	79.7	19.5
Minor fuels ¹	163	1,557	227	245	251	(S)	(S)	(S)	9.6	3.2
No energy sources used	136	1,171	229	174	(S)	(S)	(S)	(S)	8.6	3.2
Workers:										
Fewer than 5.....	2,033	13,129	3,658	2,835	2,545	1,514	1,256	(S)	6.5	3.2
5 to 9.....	842	6,578	1,468	1,491	1,321	989	689	(S)	7.8	4.5
10 to 19.....	587	7,895	777	1,287	2,051	1,531	1,233	(S)	13.4	6.9
20 to 49.....	434	8,847	253	1,049	2,150	2,423	1,936	(S)	20.4	11.3
50 to 99.....	152	6,510	(S)	189	898	1,547	1,636	(S)	42.9	25.5
100 to 249.....	73	6,445	(S)	(S)	213	565	1,929	(S)	87.9	63.0
250 or more.....	33	8,828	(S)	(S)	(S)	478	8,252	264.6	160.0	
Weekly operating hours:										
39 or less.....	870	9,286	1,448	1,333	1,542	1,459	1,279	(S)	10.7	4.3
40 to 48.....	1,086	15,167	1,623	1,656	2,671	2,624	2,215	4,377	14.0	5.0
49 to 60.....	919	10,805	1,302	1,770	2,121	1,468	1,360	2,783	11.8	5.0
61 to 84.....	558	9,760	777	950	1,245	1,510	1,477	3,800	17.5	5.4
85 to 167.....	375	5,514	582	685	597	634	1,108	(S)	14.7	4.9
168 (open continuously).....	347	7,696	476	466	943	967	1,119	3,726	22.2	5.4

S Figure does not meet publication standards. ¹ Active solar, coal, wood and biomass.

Source: U.S. Energy Information Administration, Nonresidential Buildings Energy Consumption Survey: Characteristics of Commercial Buildings, 1986.

Commercial Buildings

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No. 1261. COMMERCIAL BUILDINGS AND WORKERS—SELECTED BUILDING CHARACTERISTICS, BY FLOORSPACE: 1986

[See headnote, table 1260]

BUILDING CHARACTERISTICS	NUMBER OF BUILDINGS (1,000)							WORKERS		
	Total	Square footage of—						Number (1,000)	Average sq. ft. per worker	Median sq. ft. per worker
		5,000 or less	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 and over			
All buildings	4,154	2,220	931	557	242	123	81	73,436	792.9	1,000.9
Region:										
Northeast.....	663	298	183	90	53	21	18	16,183	731.0	1,000.5
Midwest.....	1,096	559	277	147	56	33	24	17,636	909.2	1,251.9
South.....	1,570	905	312	200	83	47	22	25,099	774.0	975.8
West.....	825	458	158	120	51	22	16	14,518	753.4	833.9
Principal activity within building:										
Assembly.....	575	274	138	105	33	16	(S)	4,303	1,705.7	2,901.9
Education.....	241	72	50	44	37	21	(S)	6,833	1,071.5	932.5
Food sales/service.....	303	204	(S)	(S)	(S)	(S)	(S)	5,073	890.8	855.4
Health care.....	52	27	(S)	(S)	6	(S)	4	5,050	417.3	422.7
Lodging.....	137	48	29	31	16	9	(S)	2,277	1,223.2	2,001.3
Mercantile/services.....	1,287	757	309	142	46	23	10	15,870	806.9	900.7
Office.....	614	343	133	74	35	15	15	25,010	381.7	437.9
Public order and safety.....	55	26	(S)	13	(S)	(S)	(S)	1,367	497.8	875.3
Warehouse.....	549	274	123	72	44	21	(S)	5,343	1,683.6	3,001.8
Other.....	103	58	(S)	18	(S)	5	(S)	1,586	1,102.3	1,601.3
Vacant.....	238	136	47	30	15	8	(S)	745	3,933.8	(X)
Non-government owned.....	3,661	2,024	828	471	188	94	56	57,505	800.6	1,000.9
Owner occupied.....	2,396	1,338	546	301	120	59	32	35,691	811.5	1,000.9
Nonowner occupied.....	1,265	686	282	170	69	35	23	21,814	783.0	1,033.3
Government owned.....	493	196	104	86	54	29	25	15,931	765.0	1,000.1

S Figure does not meet publication standards. X Not applicable.

Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Characteristics of Commercial Buildings, 1986*.

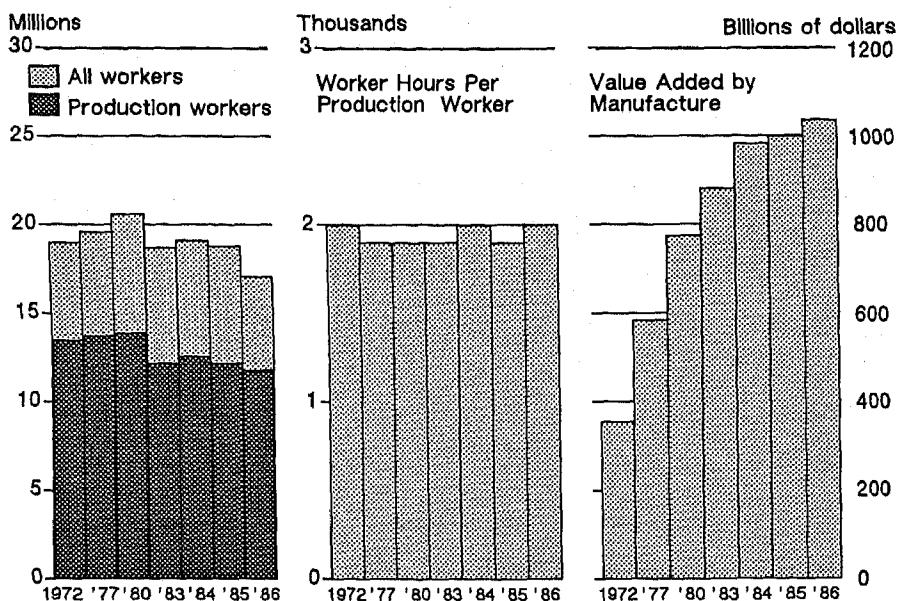
No. 1262. COMMERCIAL BUILDINGS—NUMBER AND SQUARE FOOTAGE OF FLOORSPACE, BY TYPE OF BUILDING AND CHARACTERISTIC: 1986

BUILDING CHARACTERISTICS	All buildings	As-sembly	Ed-uca-tion	Food sales/ ser-vic-e	Health care	Lodg-ing	Mer-cantile/ ser-vic-es	Offi-ce	Pub-lic order and sa-fety	Ware-house	Other ¹
NUMBER (1,000)											
All buildings	4,154	575	241	303	52	137	1,287	614	55	549	341
Region:											
Northeast.....	663	71	29	(S)	10	22	227	91	13	99	44
Midwest.....	1,096	156	42	86	9	30	349	153	(S)	154	103
South.....	1,570	241	80	105	17	53	481	238	18	219	118
West.....	825	108	90	(S)	17	31	231	131	(S)	77	76
Year constructed:											
1900 or before.....	188	41	(S)	(S)	(S)	(S)	55	27	(S)	19	(S)
1901 to 1920.....	255	36	10	(S)	(S)	(S)	86	36	(S)	23	23
1921 to 1945.....	629	94	34	(S)	8	12	193	92	(S)	79	61
1946 to 1960.....	878	131	68	53	8	32	282	107	(S)	122	65
1961 to 1970.....	730	103	58	54	14	42	203	104	(S)	92	46
1971 to 1973.....	243	36	16	(S)	6	(S)	76	40	(S)	29	(S)
1974 to 1979.....	572	72	21	57	3	14	181	93	(S)	87	(S)
1980 to 1982.....	350	35	20	(S)	(S)	10	111	64	(S)	53	(S)
1983 to 1986.....	309	28	12	(S)	(S)	9	101	50	(S)	46	33
Government owned.....	493	77	161	(S)	8	10	45	55	33	40	52
Non-government owned.....	3,661	498	80	291	44	127	1,242	559	(S)	509	290
FLOORSPACE (mil. sq. ft.)											
All buildings	58,229	7,339	7,321	1,993	2,107	2,785	12,805	9,546	680	8,996	4,657
Region:											
Northeast.....	11,830	1,229	1,603	(S)	328	602	2,785	1,782	289	1,905	909
Midwest.....	16,034	2,004	2,212	684	559	636	3,525	2,535	(S)	2,246	1,475
South.....	19,427	2,724	2,174	583	806	949	4,487	2,838	147	3,458	1,261
West.....	10,937	1,382	1,332	(S)	415	597	2,008	2,390	(S)	1,387	1,012
Year constructed:											
1900 or before.....	2,368	728	(S)	(S)	(S)	(S)	521	343	(S)	318	(S)
1901 to 1920.....	3,665	600	347	(S)	(S)	(S)	821	688	(S)	301	(S)
1921 to 1945.....	8,594	1,281	1,228	(S)	316	386	1,507	1,279	(S)	1,304	889
1946 to 1960.....	9,712	1,332	1,648	296	352	365	2,064	1,003	(S)	1,979	540
1961 to 1970.....	11,468	1,158	2,045	503	224	803	2,937	1,729	(S)	1,652	821
1971 to 1973.....	4,307	607	776	(S)	380	(S)	728	672	(S)	614	(S)
1974 to 1979.....	8,230	903	692	294	318	316	2,306	1,322	(S)	1,484	(S)
1980 to 1983.....	5,205	376	395	(S)	(S)	190	1,925	1,414	(S)	621	(S)
1984 to 1986.....	4,678	353	141	(S)	(S)	309	1,196	1,096	(S)	722	391
Government owned.....	12,187	1,417	5,927	(S)	580	339	682	1,185	533	530	901
Non-government owned.....	46,041	5,921	1,394	1,880	1,547	2,446	12,123	8,360	(S)	8,486	3,757

S Figure does not meet publication standards. ¹ Includes vacant commercial buildings.

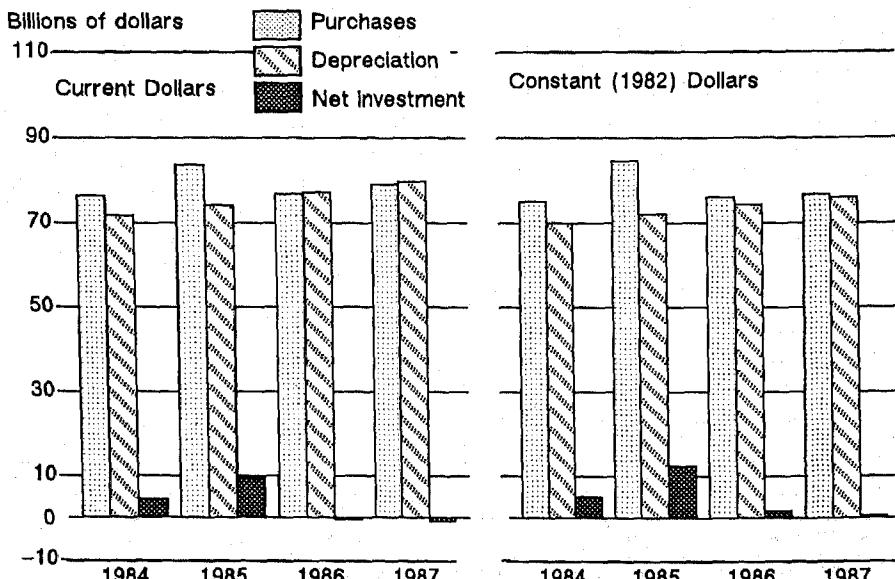
Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Characteristics of Commercial Buildings, 1986*.

Figure 27.1
Manufactures-Summary: 1972 to 1986



Source: Chart prepared by U.S. Bureau of the Census. For data see table 1268.

Figure 27.2
Capital in Manufacturing Establishments: 1984 to 1987



Source: Chart prepared by U.S. Bureau of the Census. For data see table 1270.

Manufactures

This section presents summary data for manufacturing as a whole and more detailed information for major industry groups and selected specific products. The types of measures shown at the different levels include data for establishments; employment and wages; raw materials, fuels, and electricity consumed; plant and equipment expenditures; value and quantity of production and shipments; value added by manufacture; inventories; and various indicators of financial status.

The principal sources of these data are Bureau of the Census reports of the censuses of manufactures conducted every five years; the *Annual Survey of Manufactures*; and the *Current Industrial Reports* series, which presents monthly, quarterly, or annual data on production, shipments, and stocks for particular commodities. Indexes of industrial production are presented monthly in the Federal Reserve Board's *Federal Reserve Bulletin*. Reports on current activities of industries, or current movements of individual commodities, are compiled by such government agencies as the Bureau of Labor Statistics; the Economic Research Service of the Department of Agriculture; the International Trade Administration; and by private research or trade associations such as The Conference Board, Inc., New York, and the American Iron and Steel Institute, Washington, DC.

Data on financial aspects of manufacturing industries are collected by the Bureau of Economic Analysis (BEA) and the Bureau of the Census. Industry aggregates in the form of balance sheets, profit and loss statements, analyses of sales and expenses, lists of subsidiaries, and types and amounts of security issues are published for leading manufacturing corporations registered with the SEC. The BEA issues data on capital in manufacturing industries and capacity utilization rates in manufacturing. See also section 17, *Business Enterprise*, in this edition.

Censuses and annual surveys.—The first census of manufactures covered the year 1809. Between 1809 and 1963, a census was conducted at periodic intervals. Since 1967 it has been taken every 5 years (for years ending in "2" and "7"). Census data, either direct reports or estimates from administrative records, are obtained for every manufacturing plant with one employee or more.

The Annual Survey of Manufactures, conducted for the first time in 1949, collects data for the years between censuses for the more general measures of manufacturing activity covered in detail by the censuses. The annual survey data are estimates derived from a scientifically selected sample of establishments. The 1986 annual survey is based on a sample of about 56,000 establishments of an approximate total of 350,000. It comprises all large plants, which account for approximately two-thirds of total U.S. manufacturing employment, and a representative selection of small plants. Government-owned and -operated establishments are excluded.

The basic statistical measures of manufacturing activity, such as employment, payrolls, value added, etc., are defined in essentially the same way for both the annual surveys and the census of manufactures. However, the bases for computing average employment vary for different years. For example, beginning with 1949, average employment was calculated from the figures reported for the pay periods ending nearest the 15th of March, May, August, and November, whereas for 1947 such averages were based on 12 monthly employment figures. In 1967, the average employment calculation was revised to the pay periods which include the 12th of March, May, August, and November to provide data more comparable with other statistical series.

Establishments and classification.—The censuses of manufactures for 1947 through 1982 cover operating manufacturing establishments as defined in the *Standard Industrial Classification Manual (SIC)*, issued by the U.S. Office of Management and Budget (see text, section 13). The *Manual* is also used for classifying establishments in the annual surveys. The comparability of manufactures data over time is affected by changes in the official definitions of industries as presented in the *Manual*. It is important to note therefore, that the 1972 edition of the *Manual* was used for the 1972 census; and the 1972 edition of the *Manual* and the 1977 *Supplement* was used for the 1977 and 1982 censuses while the 1967 *Manual* was used for the 1967 census. For the censuses from 1947 to 1963, reports were required from all establishments employing one or more persons at any time during the census year. Beginning with the 1967 census, an effort was made to relieve the very small establishments from the necessity of filing a census report. Approximately 130,000 small single-unit manufacturing firms identified as having less than 20 employees (cutoff varied by industry) benefited from this procedure. Data for these single unit companies were estimated on the basis of government administrative records and industry averages. Each of the establishments tabulated was classified in one of the approximately 450 manufacturing industries as defined by the

SIC Manual in 1972, 1977, and 1982. The *Manual* defines an industry as a number of establishments producing a single product or a closely related group of products. In the main, an establishment is classified in a particular industry if its production of a product or product group exceeds in value added its production of any other product group. While some establishments produce only the products of the industry in which they are classified, few within an industry specialize to that extent. The statistics on employment, payrolls, value added, inventories, and expenditures, therefore, reflect both the primary and secondary activities of the establishments in that industry. For this reason care should be exercised in relating such statistics to the total shipments figures of products primary to the industry.

The censuses for 1947 through 1982 were conducted on an establishment basis. The term "establishment" signifies a single physical plant site or factory. It is not necessarily identical with the business unit or company, which may consist of one or more establishments. A company operating establishments at more than one location is required to submit a separate report for each location. An establishment engaged in distinctly different lines of activity and maintaining separate payroll and inventory records is also required to submit separate reports.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

NO. 1263. GROSS NATIONAL PRODUCT IN MANUFACTURING IN CURRENT AND CONSTANT (1982) DOLLARS: 1970 TO 1987

[In billions of dollars, except percent. For definition of gross national product, see text, section 14. Based on 1972 Standard Industrial Classification]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
CURRENT DOLLARS										
Manufacturing	252.3	357.3	581.0	643.1	634.6	683.2	771.9	789.5	820.1	853.6
Percent of gross national product	24.8	22.3	21.2	21.0	20.0	20.0	20.5	19.7	19.3	18.9
Durable goods	145.9	206.3	351.8	385.8	382.5	385.8	451.1	458.8	486.1	480.0
Lumber and wood products	7.1	10.4	18.7	17.1	16.0	20.5	22.8	22.2	24.7	27.7
Stone, clay, and glass products	8.0	11.5	19.0	18.2	20.2	20.2	22.8	24.8	25.9	27.5
Primary metal industries	18.4	28.5	44.3	49.8	35.3	30.3	36.3	34.8	33.7	36.4
Fabricated metal products	18.2	27.4	46.0	49.6	46.3	47.6	55.1	57.8	59.1	60.3
Machinery, except electrical	28.2	41.7	76.9	88.2	80.0	75.3	85.4	82.7	80.7	81.2
Electric and electronic equipment	21.5	28.3	55.0	60.7	61.8	67.7	79.9	82.2	83.6	85.0
Motor vehicles and equipment	16.2	19.9	26.7	31.5	29.5	39.0	48.6	53.7	51.4	49.9
Other transportation equipment	13.4	16.8	28.2	28.6	32.5	40.1	46.0	48.0	53.0	56.0
Instruments and related products	7.0	10.2	19.0	22.3	22.6	23.8	26.9	25.8	26.7	27.0
Nondurable goods	106.3	151.0	229.2	257.3	272.1	297.6	320.8	330.8	354.1	373.6
Food and kindred products	26.7	39.1	52.2	57.9	61.4	64.7	66.8	69.8	71.6	74.0
Apparel and other textile products	9.0	11.5	17.1	18.7	18.9	20.3	20.7	20.6	21.0	22.5
Paper and allied products	9.7	13.9	23.1	23.1	26.7	27.8	31.9	33.1	35.2	39.5
Printing and publishing	12.9	18.6	31.6	35.2	36.4	42.4	47.6	52.5	55.1	58.2
Chemicals and allied products	19.1	30.0	45.5	53.3	55.3	59.6	62.0	63.8	70.1	77.1
Petroleum and coal products	6.9	9.9	16.4	18.8	24.0	28.3	33.7	32.2	37.0	33.6
Rubber and miscellaneous plastic products	7.2	10.4	16.8	19.3	19.3	21.9	24.4	25.9	28.1	30.0
CONSTANT (1982) DOLLARS										
Manufacturing	506.8	547.5	665.4	676.1	634.6	675.5	757.9	768.8	804.6	839.5
Percent of gross national product	21.0	20.3	20.9	20.8	20.0	20.6	21.6	21.7	21.6	21.8
Durable goods	304.8	325.2	401.5	404.9	362.5	390.4	466.8	493.7	505.0	523.2
Lumber and wood products	14.7	16.4	20.4	18.9	18.0	18.1	20.4	20.1	21.5	23.5
Stone, clay, and glass products	17.7	18.7	21.1	19.8	18.2	19.7	21.6	22.6	22.2	23.1
Primary metal industries	46.8	44.0	46.4	48.2	38.3	30.0	34.7	34.2	34.3	34.3
Fabricated metal products	44.1	41.8	52.5	52.2	46.3	48.9	55.8	56.8	56.7	58.5
Machinery, except electrical	57.0	64.1	84.6	88.6	80.0	86.9	114.8	134.5	147.0	160.7
Electric and electronic equipment	34.4	37.6	82.7	64.3	61.8	66.2	77.3	79.7	80.3	82.5
Motor vehicles and equipment	26.5	33.7	33.7	33.9	29.5	38.5	47.9	50.9	44.9	40.3
Other transportation equipment	34.3	33.8	38.1	33.3	32.2	38.8	42.6	43.8	47.4	50.2
Instruments and related products	12.3	16.1	21.8	23.7	22.6	23.3	25.4	24.7	25.2	25.3
Nondurable goods	202.0	222.2	263.9	271.2	272.1	285.1	291.1	293.0	299.7	314.3
Food and kindred products	43.8	48.2	56.7	58.2	61.4	62.0	60.8	63.1	61.6	63.7
Apparel and other textile products	14.0	18.7	20.1	20.3	18.9	19.8	20.4	19.8	19.8	21.4
Paper and allied products	18.8	20.2	24.6	24.6	26.7	28.7	30.2	30.2	31.3	33.0
Printing and publishing	29.9	32.4	36.9	38.3	38.4	39.9	41.3	43.0	42.3	42.6
Chemicals and allied products	34.4	38.3	50.1	53.5	55.3	59.6	60.0	59.1	64.1	68.9
Petroleum and coal products	23.8	25.1	26.7	25.5	24.4	24.0	25.0	24.9	26.3	26.6
Rubber and miscellaneous plastic products	12.7	15.2	18.9	20.9	18.3	21.7	24.3	26.2	26.8	29.8

¹ Includes industries not shown separately.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

NO. 1264. MANUFACTURES—SUMMARY: 1963 TO 1986

[For establishment coverage, see text, section 27. Data based on Census of Manufactures, except as noted. For composition of regions, see fig. I, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series P 1-12.]

ITEM	Unit	1963	1967	1972	1977	1980 ¹	1982	1983 ¹	1984 ¹	1985 ¹	1986 ¹
ALL ESTABLISHMENTS											
Number of establishments²											
With 20 or more employees	1,000.....	312	311	321	360	(NA)	358	(NA)	(NA)	(NA)	(NA)
Establishments	1,000.....	102	110	114	119	(NA)	123	(NA)	(NA)	(NA)	(NA)
Under 20	1,000.....	305	306	313	351	(NA)	348	(NA)	(NA)	(NA)	(NA)
20-99	1,000.....	207	199	203	237	(NA)	230	(NA)	(NA)	(NA)	(NA)
100-249	1,000.....	70	74	76	78	(NA)	84	(NA)	(NA)	(NA)	(NA)
250-999	1,000.....	18	20	21	22	(NA)	21	(NA)	(NA)	(NA)	(NA)
1,000 and over	1,000.....	10	11	11	12	(NA)	11	(NA)	(NA)	(NA)	(NA)
Form of organization:											
Corporate	1,000.....	176.2	153.9	233.2	284.2	(NA)	283.2	(NA)	(NA)	(NA)	(NA)
Noncorporate, total ⁴	1,000.....	130.4	33.2	87.5	75.7	(NA)	74.0	(NA)	(NA)	(NA)	(NA)
Individual proprietorship	1,000.....	99.2	24.9	42.5	52.3	(NA)	45.6	(NA)	(NA)	(NA)	(NA)
Partnership	1,000.....	27.7	6.7	17.7	18.3	(NA)	15.0	(NA)	(NA)	(NA)	(NA)
Region:											
Northeast	Percent..	29.8	29.1	26.3	23.7	24.2	23.7	(NA)	(NA)	(NA)	(NA)
Midwest	Percent..	35.4	35.0	34.9	34.4	31.1	29.8	(NA)	(NA)	(NA)	(NA)
South	Percent..	21.5	22.7	25.5	27.4	28.5	29.5	(NA)	(NA)	(NA)	(NA)
West	Percent..	13.3	13.0	13.4	14.5	16.2	17.0	(NA)	(NA)	(NA)	(NA)
All employees, ⁵ annual average ⁶	Million....	17.0	19.3	19.0	19.6	20.8	19.1	18.7	19.1	18.8	18.4
Payroll, all employees	Bil. dol.	100	132	174	264	350	380	395	429	443	451
Payroll per employee	\$1,000....	5.9	6.8	9.2	13.5	17.0	19.9	21.1	24.0	23.6	24.5
Production workers, annual average	Million....	12.2	14.0	13.5	13.7	13.9	12.4	12.2	12.6	12.2	11.8
Percent of all employees	Percent..	71.8	72.2	71.1	69.9	67.3	64.9	65.2	70.4	64.9	64.1
Hours, production workers	Billion....	24.5	27.8	26.7	26.7	26.7	23.5	23.6	24.6	23.7	23.2
Hours per worker	1,000....	2.0	2.0	2.0	1.8	1.9	1.9	1.9	2.0	1.9	2.0
Wages, production workers	Bil. dol....	62	81	106	157	198	205	212	232	236	237
Percent of payroll for all employees	Percent..	62.0	61.6	60.6	59.5	56.6	53.9	53.8	54.1	53.3	53.3
Wages per worker	\$1,000....	5.1	5.8	7.8	11.5	14.3	16.5	17.4	18.4	18.8	19.4
Wages per worker hour	Dollar....	2.53	2.92	3.95	5.89	7.41	8.70	8.99	9.41	9.96	10.22
Value added by manufacture ⁷	Bil. dol....	192	282	354	585	774	824	882	984	1,000	1,035
Per production worker	\$1,000....	15.7	18.8	26.2	42.7	55.7	66.5	72.4	78.2	82.0	84.8
Per production worker hour	Dollar....	7.83	9.41	13.26	21.93	28.98	35.01	37.38	39.92	42.20	43.68
Per dollar of workers' wages	Dollar....	2.90	3.22	3.36	3.72	3.91	4.02	4.16	4.24	4.24	4.28
Cost of materials	Bil. dol....	230	289	407	782	1,094	1,130	1,170	1,288	1,276	1,217
Value of shipments ⁸	Bil. dol....	421	557	757	1,359	1,853	1,960	2,055	2,254	2,280	2,250
Per production worker	\$1,000....	34.4	39.8	55.9	99.2	133.3	158.1	168.6	179.1	186.9	191.5
End-of-year inventories	Bil. dol....	60	84	108	188	262	307	308	330	322	311
Capital expenditures, new ⁹	Bil. dol....	11.4	21.5	24.1	47.5	70.1	75.0	61.9	75.3	88.1	76.4
Ratios:											
Value added to shipments	Ratio	45.6	47.0	46.7	42.9	41.8	42.0	42.9	43.7	43.8	45.8
Inventories to shipments	Ratio	14.2	15.0	14.2	13.8	14.1	15.7	15.0	14.6	14.1	13.8
Payroll to value added	Ratio	52.0	50.3	49.1	45.2	45.3	46.1	44.8	43.6	44.3	43.6
Gross book value of depreciable assets	Bil. dol....	158	218	301	439	574	692	731	772	821	(NA)
Machinery and equipment	Bil. dol....	(NA)	157	218	328	434	527	559	592	632	(NA)
Assets per employee	\$1,000....	9.3	11.3	16.4	22.4	27.8	36.2	39.1	40.4	43.7	(NA)
MULTIUNIT COMPANIES											
Establishments	1,000....	45.9	51.7	70.2	81.2	(NA)	81.7	(NA)	(NA)	(NA)	(NA)
Employees	Million....	11.0	13.3	14.3	15.0	(NA)	14.3	(NA)	(NA)	(NA)	(NA)
Production workers	Million....	9.1	9.8	10.1	10.8	(NA)	8.8	(NA)	(NA)	(NA)	(NA)
Payroll, all employees	Bil. dol....	68.2	93.8	138.8	214.2	(NA)	307.5	(NA)	(NA)	(NA)	(NA)
Wages, production workers	Bil. dol....	44.7	60.9	81.9	124.9	(NA)	159.1	(NA)	(NA)	(NA)	(NA)
Value added by manufacture	Bil. dol....	146.6	206.4	266.1	485.0	(NA)	678.4	(NA)	(NA)	(NA)	(NA)
Capital expenditures, new	Bil. dol....	8.9	18.6	20.0	41.0	(NA)	65.2	(NA)	(NA)	(NA)	(NA)
SINGLE UNIT COMPANIES¹⁰											
Establishments	1,000....	260.8	254.0	260.5	278.7	(NA)	276.3	(NA)	(NA)	(NA)	(NA)
Employees	Million....	5.2	5.2	4.8	4.6	(NA)	4.8	(NA)	(NA)	(NA)	(NA)
Payroll, all employees	Bil. dol....	25.1	28.5	35.4	49.8	(NA)	72.1	(NA)	(NA)	(NA)	(NA)
Value added by manufacture	Bil. dol....	45.5	55.5	67.9	100.1	(NA)	145.7	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Estimated data based on *Annual Survey of Manufactures*; see text, section 27. ² Includes administrative and auxiliary units, except as noted. ³ Excludes administrative offices and auxiliary units. ⁴ Includes forms of organization not shown separately. ⁵ Includes data for employees of manufacturing establishments engaged in distribution and construction work. ⁶ Data are based on pay periods ending nearest 15th of March, May, August, and November. ⁷ Adjusted value added; takes into account (a) value added by merchandising operations (that is, difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) net change in finished goods and work-in-process inventories between beginning and end of year. ⁸ Includes extensive and unmeasurable duplication from shipments between establishments in the same industry classification. ⁹ Includes plants under construction and not yet in operation. ¹⁰ Beginning 1987, includes data obtained from Federal administrative records.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1963, 1967, 1972, 1977, and 1982*; and *Annual Survey of Manufactures*.

Manufactures

NO. 1265. MANUFACTURES—SUMMARY BY INDUSTRY GROUP: 1977 TO 1986

[Data based on various editions of the Standard Industrial Classification Manual; published by the Office of Management and Budget; see text, section 27. See also *Historical Statistics, Colonial Times to 1970*, series P-58-57.]

SIC ¹ code	INDUSTRY GROUP	1977						1982						1986					
		All employees		Value added by manufacture (mil. dol.)		Pay-roll (mil. dol.)		All employees		Value added by manufacture (mil. dol.)		Pay-roll (mil. dol.)		All employees		Value added by manufacture (mil. dol.)		Value of shipments (mil. dol.)	
		Establishments (number)	Number ² (1,000)			Establishments (number)	Number ² (1,000)			Establishments (number)	Number ² (1,000)								
356,928	All manufacturing establishments, incl. central administrative offices...	19,590	284,013	585,166	356,061	19,994	379,627	824,118	1,960,206	18,370	450,760	11,765	236,599	1,035,437	2,260,315				
26,456	Food and kindred products	1,520	18,544	56,052	22,130	1,488	26,088	88,419	200,529	1,409	28,567	990	17,789	112,191	308,823				
4,534	Meat products	309	3,702	7,478	3,623	318	4,983	11,002	67,602	317	5,133	254	3,969	13,532	65,668				
3,731	Dairy products	154	1,938	6,648	2,244	140	2,553	10,924	57,914	137	5,914	183	1,649	10,919	42,163				
2,379	Preserved fruits and vegetables	235	2,336	7,885	2,093	220	3,315	12,353	29,674	221	3,685	162	2,805	16,936	35,285				
3,043	Grain mill products	113	1,576	6,626	2,745	108	2,197	10,333	31,386	97	2,472	66	2,354	13,554	36,723				
2,866	Bakery products	222	2,856	7,073	2,663	217	4,051	10,650	17,808	198	4,381	115	2,354	17,526	21,326				
1,988	Sugar and confectionery products	105	1,236	4,151	1,933	96	1,661	6,234	15,575	89	1,901	70	1,357	17,580	15,602				
869	Fats and oils	41	556	1,956	1,224	39	2,774	2,785	16,752	33	725	21	4,40	2,890	45,587				
5,104	Beverages	195	2,849	9,391	2,984	194	4,244	16,684	38,801	172	4,549	82	2,118	12,036	21,389				
4,412	Misc. foods and kindred products	146	1,508	5,596	3,941	158	2,300	10,077	23,959	107	2,550	107	1,587	12,036	21,389				
228	Tobacco products	14	751	4,334	163	58	3,324	8,965	16,064	46	1,980	34	912	12,725	19,973				
101	Cigarettes	8	588	3,803	14	42	1,094	8,098	12,127	33	1,101	24	758	11,501	15,699				
35	Cigars	32	126	60	5	59	138	234	4	55	3	38	147	1,252					
78	Chewing and smoking tobacco	11	189	29	3	52	421	665	3	78	2	47	730	1,062					
7,202	Tobacco stemming and regrading	117	981	16,105	6,630	717	9,048	18,550	47,515	644	10,306	555	7,898	22,232	55,349				
314	Textile mill products	228	751	4,334	163	58	3,324	8,965	16,064	58	933	53	798	2,116	4,155				
449	Weaving mills, cotton	151	588	3,803	14	42	1,094	8,098	12,127	33	1,101	24	758	11,501	15,699				
165	Weaving, manmade fiber	15	137	2,791	131	13	1,815	3,489	8,191	110	1,882	96	1,497	3,777	8,666				
325	Wearing, finishing mills, wool	21	172	351	281	18	1,76	349	763	12	1,195	11	1,49	372	815				
2,617	Narrow fabric mills	236	1,911	3,863	2,334	205	2,327	4,985	10,986	190	2,681	164	2,028	5,494	12,203				
678	Knitting mills	72	734	1,417	753	55	834	1,590	4,972	53	936	43	678	1,887	5,914				
592	Taxile finishing, except wool	56	557	1,530	505	42	603	1,712	5,808	50	907	39	618	2,486	8,672				
798	Floor covering mills	143	1,184	2,255	714	109	1,278	2,318	7,036	102	1,521	92	1,271	3,014	8,404				
1,254	Yarn and thread mills	68	706	1,641	1,120	55	833	2,005	4,935	53	982	42	677	2,493	5,481				
23	Misc. textile goods	1,324	9,658	19,871	24,391	1,189	12,129	26,061	53,388	1,017	12,471	653	8,949	57,919	13,242				
26,505	Apparel, other textile products	737	862	15,74	529	75	1,653	3,062	6,621	53	527	53	1,872	13,697	13,697				
3,013	Men's and boys' suits and coats	365	2,340	4,059	2,444	299	2,867	6,621	12,700	288	2,946	230	2,280	7,392	13,697				
11,834	Women's and misses' outerwear	448	3,153	6,490	10,338	419	8,576	16,225	330	3,79	277	615	8,708	16,115	16,115				
234	Woman's, children's undergarments	92	613	1,250	755	82	788	1,722	3,323	74	856	63	1,812	3,533	1,812				

See footnotes at end of table.

No. 1265. MANUFACTURES—SUMMARY BY INDUSTRY GROUP: 1977 TO 1986—Continued

[See headnote, p. 720]

SIC1 code	INDUSTRY GROUP	1977						1982						1986					
		All employees			All employees			All employees			Production workers			All employees			Production workers		
		Establishments (number)	Number (1,000)	Pay-roll (mil. dol.)															
235	Apparel, other textile products— Con.	409	15	105	419	16	157	295	522	14	165	12	113	319	12	113	319	604	2,725
236	Hats, caps, and millinery.....	1,002	71	459	968	71	671	2,711	55	615	46	455	1,491	46	455	1,491	360	2,000	
237	Children's outerwear.....	620	4	113	504	3	510	1,446	1,92	418	2	44	30	321	989	34	321	989	13,642
238	Fur goods.....	1,284	56	408	845	1,223	513	1,038	2,118	40	458	147	1,984	5,754	32	1,984	5,754	2,036	
239	Misc. apparel and accessories.....	6,728	1,707	3,459	6,671	1,74	2,120	4,498	10,281	119	2,779	147	1,984	5,754	1,74	1,984	5,754	1,443	
240	Misc. fabricated textile products.....	632	7,425	16,223	32,884	576	8,445	15,377	42,935	620	10,820	512	8,135	23,239	58,156	23,239	58,156	8,226	
241	Lumber and wood products.....	37,302	63	11,009	21,19	11,558	576	1,227	2,502	827	12,250	61	1,022	2,892	16,553	16,553	16,553	16,553	
242	Logging camps, log contractors.....	15,468	63	9,000	7,403	81	2,306	3,748	11,122	170	2,980	149	2,415	6,534	7,18	7,18	7,18	18,405	
243	Sawmills and planing mills.....	9,000	2,228	4,275	7,403	165	2,506	4,468	11,683	200	3,782	162	2,771	8,226	16,553	16,553	16,553	16,553	
244	Millwork, plywood, and structural members.....	6,149	137	2,216	4,101	6,545	165	2,506	4,468	11,683	200	3,782	162	2,771	8,226	16,553	16,553	16,553	
245	Wood containers, woodenware, and wooden fixtures.....	1,949	39	950	2,550	38	1,250	1,655	51	1,655	51	25	830	3,088	6,956	3,088	6,956	6,040	
246	Wood buildings and mobile homes.....	1,165	80	698	1,189	1,163	60	880	1,741	525	1,935	48	1,097	765	2,177	765	2,177	6,956	
247	Wood products.....	3,350	130	3,365	3,365	130	2,223	3,223	83	3,223	83	3,171	830	3,088	6,956	3,088	6,956	6,956	
248	Furniture and fixtures.....	10,235	464	4,448	8,922	10,003	436	6,084	12,828	24,129	467	8,030	376	5,558	17,659	33,081	33,081	33,081	
249	Household furniture.....	6,161	310	2,669	5,213	5,275	263	6,455	12,776	267	4,025	227	2,974	8,575	16,991	16,991	16,991	16,991	
250	Office furniture.....	5,223	45	543	1,236	700	59	1,051	4,277	4,150	69	1,499	51	969	3,788	6,259	6,259	6,259	
251	Public building, related furniture, partitions, and fixtures.....	420	20	214	415	413	19	2,202	570	1,103	23	400	17	257	828	1,655	1,655	1,655	
252	Misc. furniture and fixtures.....	2,124	57	675	1,211	1,267	80	1,025	2,030	3,700	66	1,362	50	895	2,721	4,892	4,892	4,892	
253	Misc. furniture and fixtures.....	997	32	947	1,47	1,267	86	1,251	2,386	42	745	31	482	1,743	3,284	3,284	3,284	3,284	
254	Pulpitills, except building paper.....	6,545	16	8,943	22,171	6,381	606	12,948	33,376	79,885	603	16,113	458	11,297	43,925	97,853	97,853	97,853	
255	Paperboard mills.....	339	127	2,167	5,007	299	17	4,588	3,114	3,110	15	5,94	12	449	1,591	3,837	1,591	3,837	
256	Misc. converted paper products.....	249	98	1,176	3,081	222	56	3,481	8,954	20,985	129	4,405	99	3,233	12,033	25,706	12,033	25,706	
257	Paperboard containers and boxes.....	2,994	207	2,608	7,063	3,006	213	3,961	9,531	3,740	51	1,714	39	1,292	4,947	11,160	11,160	11,160	
258	Building paper and board mills.....	98	204	2,602	5,956	2,781	188	3,517	26,701	215	4,983	162	3,336	16,176	33,683	33,683	33,683	33,683	
259	Printing and publishing.....	49,767	1,025	31,980	53,406	1,292	22,707	54,423	85,797	1,376	29,890	738	14,099	78,150	118,571	29,206	118,571	29,206	
260	Newspapers.....	8,867	250	4,206	9,719	6,246	402	6,555	15,275	21,276	6,381	1,376	152	2,913	22,169	29,206	22,169	29,206	
261	Periodicals.....	2,694	106	1,379	5,763	3,228	94	1,986	6,911	11,478	98	2,711	14	269	10,198	15,719	10,198	15,719	
262	Books.....	2,694	32	503	1,291	2,681	112	2,090	6,721	10,192	1,129	2,871	53	908	9,639	13,834	9,639	13,834	
263	Misc. publishing.....	2,352	422	422	1,291	2,057	45	706	1,986	27,700	452	10,675	365	6,949	21,490	34,042	6,949	21,490	
264	Commercial printing.....	26,815	45	575	8,951	29,735	50	934	2,491	5,059	54	1,272	38	827	3,676	6,985	3,676	6,985	
265	Manifold business forms.....	166	18	227	656	154	21	344	1,349	1,894	62	407	11	174	2,036	2,681	2,036	2,681	
266	Greeting card publishing.....	1,492	56	579	1,149	1,487	61	903	1,984	2,803	62	1,167	49	967	797	3,688	797	3,688	
267	Blankbooks and bookbinding.....	3,592	48	735	1,268	4,178	56	2,017	2,594	59	1,443	44	2,717	3,528	2,717	3,528	2,717	3,528	

See footnotes at end of table.

Manufactures

No. 1265. MANUFACTURES—SUMMARY BY INDUSTRY GROUP: 1977 TO 1986—Continued

[See headnote, p. 720.]

SIC ¹ code	INDUSTRY GROUP	1977				1982				1986						
		Establish- ments (num- ber)	All employees Num- ber (1,000)	Value added by manu- fac- ture (mil. dol.)	Estab- lish- ments (num- ber)	All employees Num- ber (1,000)	Pay- roll (mil. dol.)	Value added by manu- fac- ture (mil. dol.)	Establish- ments (num- ber)	All employees Num- ber (1,000)	Pay- roll (mil. dol.)	Value added by manu- fac- ture (mil. dol.)	Establish- ments (num- ber)	All employees Num- ber (1,000)	Pay- roll (mil. dol.)	Value added by manu- fac- ture (mil. dol.)
26	Chemicals and allied products.....	12,173	880	13,839	56,721	11,901	873	20,836	77,345	170,757	802	23,711	458	11,756	100,013	
261	Industrial inorganic chemicals	1,292	110	1,847	6,487	1,365	198	2,795	8,825	17,250	99	3,143	54	1,584	19,491	
262	Plastics materials, synthetics	551	157	2,480	7,843	806	141	2,952	12,424	28,359	34,412	3,942	4,962	85	14,152	35,222
263	Drugs.....	1,243	156	1,526	9,940	1,281	168	3,986	16,981	24,635	166	4,962	78	1,807	24,389	
264	Soaps, cleaners, toilet goods	2,528	112	1,526	9,407	2,379	127	5,281	25,222	31,031	122	3,128	71	1,522	31,386	
265	Paints, varnishes, lacquers, and allied products	1,579	61	883	2,821	1,441	54	1,198	3,953	9,182	156	1,746	61	5,407	11,725	
266	Industrial organic chemicals	879	153	2,794	12,875	969	144	4,005	12,341	20,157	1,116	3,986	66	2,138	14,776	
267	Agricultural chemicals	1,325	54	784	3,808	1,127	51	1,156	5,087	14,853	111	3,986	25	1,708	12,766	
268	Misc. chemical products.....	2,798	77	1,075	3,539	2,733	82	1,725	5,433	12,330	82	2,072	50	1,084	12,670	
29	Petroleum and coal products.....	2,206	147	2,116	16,374	2,322	162	4,339	22,069	20,919	42,115	82	2,558	17,496	124,878	
291	Petroleum refining.....	349	103	2,055	4,426	433	108	3,398	19,247	19,357	84	3,131	55	1,987	13,762	
295	Paving and roofing materials	1,287	32	481	1,272	1,307	90	629	1,743	5,948	28	745	20	4,716	13,286	
298	Misc. petroleum and coal products	580	12	180	682	582	14	312	1,078	3,614	13	339	7	1,259	7,499	
30	Rubber and miscellaneous plastics products	11,943	721	8,536	19,740	13,449	682	11,587	27,219	55,416	741	15,273	572	10,124	37,236	
301	Tires and inner tubes	84	20	1,832	4,347	164	65	7,734	4,660	9,340	65	2,120	52	1,531	5,250	
302	Rubber, plastics footwear	21	1	159	272	17	187	960	706	706	9	137	8	89	573	
303	Reclaimed rubber	146	34	457	974	162	25	11	23	45	1	14	1	10	51	
304	Rubber and plastics hose, belting	1,280	99	1,164	2,352	1,380	25	503	1,028	1,946	23	510	17	335	2,282	
306	Fabricated rubber products, n.e.c.	10,212	454	4,912	11,770	11,653	479	1,561	3,213	6,396	96	2,057	71	1,296	8,326	
307	Misc. plastics products							7,581	17,935	37,013	547	10,335	424	6,864	26,261	
31	Leather and leather products	3,075	243	1,860	3,719	2,735	200	2,219	4,773	9,719	130	1,880	110	1,213	3,611	
311	Leather tanning and finishing	465	23	255	535	384	20	311	580	1,753	13	249	11	182	475	
313	Boots, shoe cut stock, findings	190	9	65	109	161	7	155	388	4	56	4	56	1,889	1,889	
314	Footwear, except rubber	811	146	1,032	2,070	751	121	1,250	2,809	5,259	76	927	66	701	2,247	
315	Leather gloves and mittens	101	16	1,34	68	96	4	37	73	178	4	34	3	28	4,008	
316	Luggage	288	19	164	323	292	16	194	433	788	11	166	8	91	339	
317	Handbags and other personal leather goods	678	32	242	472	636	25	271	564	1,035	16	189	13	125	409	
319	Leather goods, n.e.c.	532	9	68	137	415	7	76	160	327	50	167	5	48	792	

See footnotes at end of table.

NO. 1265. MANUFACTURES—SUMMARY BY INDUSTRY GROUP: 1977 TO 1986—Continued

[See headnote, p. 720]

Industry Groups

723

SIC ¹ code	INDUSTRY GROUP	1986						1982						1977					
		All employees			All employees			All employees			All employees			Establishments (number) (mill.)			Value added by manufac- ture ² (mill. doll.)		
		Estab- lish- ments (num- ber)	Pay- roll (mil. doll.)	Num- ber (1,000)	Wages (mil. doll.)	Pay- roll (mil. doll.)	Num- ber (1,000)	Wages (mil. doll.)											
32	Stone, clay, and glass products	17,744	19,130	16,545	532	10,087	22,986	45,191	514	11,745	399	8,352	30,877	57,274	1,410	2,598			
321	Flat glass	6,221	7,943	6,569	15	1,414	1,686	1,686	15	1,694	12	336	4,689	5,998	1,562	4,889			
322	Glass, pressed or blown	5,058	1,548	3,552	159	97	4,482	7,941	78	1,927	67	1,562	2,270	4,362	2,270	4,362			
322	Products of purchased glass	1,011	386	429	1,060	1,337	41	1,494	2,977	44	887	34	613	4,220	4,220	4,220			
324	Cement, hydraulic	201	28	485	1,612	237	25	1,616	3,542	20	623	15	446	2,153	4,220	4,220			
325	Pottery and related products	791	485	486	1,058	628	30	1,174	1,762	38	730	25	519	1,764	1,869	1,869			
326	Concrete, gypsum, plaster products	984	483	460	894	910	37	598	6,603	14,947	174	320	132	2,636	9,926	20,825	20,825		
327	Cut stone and stone products	993	13	2,367	5,391	9,933	167	2,985	228	285	555	11	199	9	148	376	683		
328	Misc. nonmetallic mineral products	2,390	126	1,635	4,395	2,261	108	2,079	5,296	103	2,446	76	1,583	6,832	12,027	12,027			
33	Primary metal industries	7,975	11,114	18,745	37,568	7,061	854	20,863	33,221	104,667	990	18,882	529	13,472	38,092	105,947			
331	Blast furnace and basic steel products	1,216	530	10,086	18,118	1,068	866	10,222	14,722	46,720	249	7,726	190	5,072	15,862	44,787			
332	Iron and steel foundries	1,665	222	3,329	6,237	1,439	157	3,113	6,362	12,720	125	7,213	99	2,372	5,650	10,100			
333	Primary nonferrous metals	160	57	3,032	3,619	1,617	44	1,307	2,311	11,321	32	1,011	24	702	1,745	8,876			
334	Secondary nonferrous metals	480	19	270	768	458	19	402	620	4,832	15	351	11	833	4,143	8,876			
335	Nonferrous rolling and drawing	1,002	177	2,640	5,902	1,022	167	3,636	6,822	24,483	15	4,021	116	2,732	9,095	28,771			
336	Nonferrous foundries	1,892	82	1,044	1,980	1,907	75	1,385	2,458	4,603	80	1,781	65	1,296	3,192	6,050			
339	Misc. primary metal products	1,180	26	345	1,980	1,007	26	488	988	2,066	33	778	24	458	1,715	2,920			
34	Fabricated metal products	33,712	1,556	21,036	45,512	35,560	1,460	28,283	56,928	119,444	1,420	33,116	1,050	21,817	68,621	132,976			
341	Metal cans, shipping containers	597	72	1,247	3,614	566	59	1,533	4,443	12,172	49	1,340	41	1,212	4,113	11,957			
342	Cutlery, handtools, hardware	2,137	169	2,179	2,238	1,574	141	2,355	6,041	10,032	144	3,268	108	2,196	7,551	12,782			
343	Plumbing and heating, exc. electrical	1,015	53	637	1,574	1,177	48	2,023	6,048	13,106	79	986	33	2,651	5,007				
344	Fabricated structural metal products	11,818	426	5,492	11,785	12,681	422	7,887	15,466	34,904	378	1,179	268	5,023	16,052	36,434			
345	Screw machine products, bolts, etc.	2,627	105	1,414	2,884	2,690	94	1,727	3,399	5,834	93	2,105	71	1,459	4,418	7,642			
346	Metal forgings, stampings	3,715	45	4,511	9,913	4,019	236	5,110	9,710	20,057	25	7,083	202	5,254	12,675	27,055			
347	Metal services, n.e.c.	5,095	94	1,009	1,983	5,070	97	1,518	2,897	5,125	109	2,003	84	1,330	3,987	6,982			
348	Ordnance and accessories, n.a.c.	346	70	992	1,737	349	79	1,787	3,442	4,983	82	2,020	52	1,167	4,777	6,780			
349	Misc. fabricated metal products	6,373	279	3,556	7,855	6,770	284	5,312	11,558	22,274	285	5,722	191	3,548	12,395	23,338			
35	Machinery, exc. electrical	48,200	2,083	30,558	67,223	52,912	2,188	46,911	102,270	187,896	1,863	49,845	1,141	26,422	108,365	208,529			
351	Engines and turbines	315	130	2,288	4,950	3,41	2,197	2,856	6,059	13,040	90	2,925	58	1,720	6,958	14,116			
352	Farm and garden machinery	2,159	151	5,097	11,856	5,952	326	7,332	16,453	32,038	209	5,535	55	1,066	4,853	10,392			
353	Construction and related machinery	3,229	333	4,514	8,747	10,981	253	6,056	11,225	16,180	223	6,524	180	4,251	12,825	25,935			
354	Machining machinery	10,830	298	4,514	8,747	10,981	183	5,478	6,715	13,128	158	4,141	190	2,029	6,165	14,940			
355	Special industry machinery	4,097	185	2,616	5,217	4,226	4,981	3,14	5,439	13,587	24,459	163	3,611	132	2,916	24,751	56,930		
356	General industrial machinery	4,947	314	4,451	9,673	4,981	314	4,04	9,437	23,386	43,038	363	11,414	124	2,887	21,718	56,930		
357	Office and computing machines	1,317	258	3,949	9,921	2,169	172	3,344	8,121	16,450	160	4,381	124	2,662	5,923	21,718			
358	Refrigeration, service machinery	2,114	192	2,516	5,983	1,837	172	3,247	5,235	9,806	14,497	207	2,277	11,857	21,718	56,930			
359	Misc. machinery, except electrical	19,389	223	2,980	5,382	22,247	232	3,247	5,235	9,806	14,497	273	2,277	11,857	21,718	56,930			

See footnotes at end of table.

Manufactures

NO. 1265. MANUFACTURES—SUMMARY BY INDUSTRY GROUP: 1977 TO 1986—Continued

[See headnote, p. 720]

SIC ¹ code	INDUSTRY GROUP	1977				1982				1986							
		All employees		Value added by manufacture ³ (mil. dol.)	Pay-roll num- ber ² (1,000)	All employees		Value added by manufacture ³ (mil. dol.)	Value of ship- ments ³ (mil. dol.)	All employees		Pay-roll num- ber ² (1,000)	Wages and salaries ³ (mil. dol.)	Value added by manu- facture ³ (mil. dol.)	Value of ship- ments ³ (mil. dol.)		
		Estab- lish- ments (num- ber)	Pay- roll (mil. dol.)			Estab- lish- ments (num- ber)	Pay- roll (mil. dol.)			Estab- lish- ments (num- ber)	Pay- roll (mil. dol.)						
36	Electric and electronic equipment	14,973	1,723	22,544	50,386	16,453	1,915	38,414	84,605	147,944	49,214	1,160	23,361	112,422	196,246		
361	Electric distributing equipment	947	116	2,543	5,335	942	105	1,955	8,108	20,190	4,219	64	1,221	4,885	8,803		
362	Electrical industrial apparatus	1,846	198	1,543	5,614	1,980	191	3,706	7,919	13,825	4,022	114	2,225	8,826	15,839		
363	Household appliances	666	162	1,898	5,276	630	129	2,223	12,644	123	4,674	95	1,910	7,555	16,649		
364	Household lighting and wiring equipment	2,009	165	1,895	4,741	1,983	153	2,718	6,619	12,048	3,474	113	2,191	4,949	16,530		
365	Radio and TV and wiring equipment	1,250	98	1,097	3,078	1,032	66	1,154	3,200	7,853	161	3,938	4,329	11,938	11,938		
366	Communication equipment	2,385	459	6,985	14,130	2,721	801	13,979	28,299	46,426	668	19,659	305	7,503	42,977	67,435	
367	Electronic components, accessories	4,455	374	4,567	9,260	5,455	516	21,214	34,517	617	12,306	313	5,340	25,957	41,985		
368	Misc. electrical equipment, supplies	1,575	152	2,098	4,930	1,700	147	2,858	6,994	12,544	155	3,681	107	2,122	9,923	11,967	
37	Transportation equipment	10,176	1,788	30,673	64,291	9,443	1,598	40,812	84,932	201,346	1,770	56,708	1,169	38,826	125,706	313,825	
371	Motor vehicles and equipment	10,234	431	17,733	67,608	16,038	37,023	3,867	618	34,294	571	19,344	315	9,994	50,213	191,551	
372	Aircraft and parts	1,713	431	7,621	14,732	1,471	539	14,718	29,402	52,027	16,220	2,191	317	7,556	74,303	74,303	
373	Ship and boat building and repairing	2,795	220	2,940	4,681	2,568	205	4,336	7,509	13,326	1,432	16	421	7,230	12,989		
374	Truck and bus building and repairing	2,021	56	889	1,883	200	35	790	1,432	3,457	24	687	16	1,988	2,613	2,613	
375	Motorcycles, bicycles, parts	350	16	169	370	273	13	251	403	1,341	8	168	6	1,430	1,932	2,686	
376	Miscellaneous space vehicles	109	120	2,427	4,422	105	146	4,481	9,857	14,398	228	8,154	85	2,562	17,781	26,896	
377	Misc. transportation equipment	1,314	49	591	1,181	961	43	879	1,977	4,528	45	1,045	32	635	2,987	4,741	
38	Instruments, and related products	7,481	559	7,520	18,762	8,045	624	12,883	33,672	51,798	14,818	335	6,704	40,005	61,910		
381	Engineering, scientific, instruments	7,876	442	584	12,287	11,771	43	889	2,101	3,046	46	11,177	30	3,622	22,669	33,321	
382	Measuring and control devices	2,079	200	2,686	5,242	2,483	228	4,646	10,007	14,633	207	5,385	113	3,200	10,927	16,943	
383	Optical instruments and lenses	2,555	90	421	897	639	50	1,036	2,388	3,757	1,036	2,056	26	5,316	3,078	4,952	
384	Medical instruments and supplies	114	1310	3,262	7,777	2,711	141	2,432	6,974	10,863	155	3,445	97	1,656	9,753	14,955	
385	Ophthalmic goods	534	314	655	4,110	4,100	26	4,462	8,74	12,723	21	4,115	14	2,038	9,934	11,411	
386	Photographic equip. and supplies	780	112	1,900	6,732	795	119	3,188	10,860	17,038	95	2,870	48	1,235	12,336	18,580	
387	Watches, clocks, and wristwatches	302	32	317	685	237	17	2,98	484	1,188	12	223	9	1,28	510	1,148	
39	Misc. manufacturing	17,258	441	4,406	10,291	15,871	383	5,647	14,059	26,891	36	5,892	236	3,520	14,622	27,219	
391	Jewelry, silverware, and plated ware	3,118	61	638	1,449	2,882	50	1,784	4,376	8,812	46	4,376	32	4,711	1,950	4,822	
392	Musical instruments	450	25	233	488	452	18	238	4,005	9,96	9,96	12	212	9	140	4,444	7,742
393	Toys and sporting goods	2,910	119	1,112	3,000	2,570	99	1,389	4,610	8,256	76	1,282	56	773	4,029	7,696	
394	Pens, office and art goods	987	32	331	868	1,026	32	1,253	4,465	8,232	15	4,664	15	289	1,225	2,198	
395	Costume jewelry and notions	1,514	51	451	1,002	1,356	42	538	1,156	2,110	37	593	27	355	1,436	2,477	
396	Misc. manufactures	8,280	152	1,623	3,485	7,585	142	2,217	4,751	8,860	129	2,530	94	1,490	5,938	9,484	
397	Administrative and auxiliary ⁴	9,171	1,074	21,981	(x)	9,676	(x)	(x)	(x)	1,263	48,293	(x)	(x)	(x)	(x)	(x)	

X Not applicable. ¹ Standard Industrial Classification Code; see text, section 27. ² All employees" represents the average of "production workers" plus all other employees for the payroll period ended nearest the 15th of March.

³ Manufacturing concerns reported separately for central offices or auxiliaries which serve the manufacturing establishment of a company, rather than the general public. Separate reports were obtained from such units if they serviced more than one establishment.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977 and 1982*; *General Summary, 1977* and *MC82t(1)-1 and MC82t(1)-1, and Annual Survey of Manufactures*.

Manufactures Shipments

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No. 1266. CONCENTRATION RATIOS IN MANUFACTURING—SELECTED INDUSTRIES: 1982

[First 31 industries (excluding those classified as "Miscellaneous" or "Not elsewhere classified") as determined by value of shipments in 1982 of \$5.5 billion or more. See source for detail.]

SIC 1 code	INDUSTRY	Number of companies	Value added by manufacturer ² (mil. dol.)	Total value of shipments ³ (mil. dol.)	PERCENT OF SHIPMENTS, RANKED BY COMPANY SIZE			
					4 largest	8 largest	20 largest	50 largest
2911	Petroleum refining.....	282	19,247	199,357	28	48	76	93
3711	Motor vehicles and car bodies.....	284	15,456	70,740	92	97	99	99+
2011	Meatpacking plants.....	1,658	5,825	44,854	20	43	61	75
3312	Blast furnaces and steel mills.....	211	11,783	36,824	42	64	82	95
3573	Electronic computing equipment.....	1,520	19,598	36,767	43	55	71	82
3714	Motor vehicle parts and accessories.....	2,000	16,765	36,283	61	69	77	84
3662	Radio and TV communications equipment.....	2,083	21,178	33,032	22	35	57	73
3721	Aircraft.....	139	15,642	28,024	64	81	98	99+
2711	Newspapers.....	7,520	15,275	21,276	22	34	49	66
2621	Papermills, exc. building paper.....	135	8,954	20,995	22	40	71	93
2752	Commercial printing, lithographic.....	17,932	11,045	19,441	6	10	17	24
2834	Pharmaceutical preparations.....	584	13,484	18,998	26	42	69	90
2026	Fruit milk.....	853	4,089	18,736	16	27	48	66
3861	Photographic equipment and supplies.....	723	10,860	17,038	74	86	91	94
2086	Bottled and canned soft drinks.....	1,236	6,856	16,808	14	23	39	56
2821	Plastics materials and resins.....	263	4,746	15,789	22	38	64	89
3661	Telephone, telegraph apparatus.....	259	7,121	13,394	76	83	92	97
2051	Bread, cake, and related products.....	1,869	7,861	13,143	34	47	60	73
3585	Refrigeration and heating equipment.....	730	6,049	12,390	34	46	65	80
2111	Cigarettes.....	8	8,098	12,127	(D)	(D)	(X)	(X)
3531	Construction machinery.....	817	5,478	11,858	42	52	69	81
2721	Periodicals.....	3,143	6,911	11,478	20	31	49	64
3523	Farm machinery and equipment.....	1,787	5,201	10,743	53	62	69	77
2844	Toilet preparations.....	596	7,131	10,183	34	49	71	88
2421	Sawmills and planing mills, general.....	5,810	3,238	10,065	17	23	34	46
3011	Tires and inner tubes.....	108	4,660	9,340	66	86	98	99+
2841	Soap and other detergents.....	642	4,777	9,167	60	73	83	90
3465	Automotive stampings.....	566	4,114	8,777	61	66	74	82
2824	Organic fibers, noncellulosic.....	44	3,918	8,283	77	91	99	100
3321	Gray iron foundries ⁴	801	3,310	6,202	29	37	53	68
2751	Commercial printing, letterpress.....	10,211	3,161	5,504	7	10	16	24

D Withheld to avoid disclosure. X Not applicable. 1 Standard Industrial Classification; see text, sections 13 and 27.

² See footnote 7, table 1264. ³ See footnote 8, table 1264. ⁴ Includes foundries producing gray-iron castings for other plants of the same company. Accordingly, percentages do not reflect market shares in industry as such.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1982, Concentration Ratios in Manufacturing, MC82-SR-7*.

NO. 1267. PRODUCTION WORKERS, IN MANUFACTURING INDUSTRIES—AVERAGE HOURLY EARNINGS, BY STATE: 1980 TO 1987

[In dollars]

DIVISION AND STATE	1980	1982	1983	1984	1985	1986	1987	DIVISION AND STATE	1980	1982	1983	1984	1985	1986	1987
U.S.	7.27	8.49	8.83	9.19	9.54	9.73	9.91	S.A.—Con.							
N.E.:								VA.....	6.22	7.37	7.79	8.10	8.51	8.83	9.15
ME.....	6.00	7.22	7.61	8.05	8.40	8.65	8.77	WV.....	8.08	9.40	9.74	9.93	10.24	10.38	10.56
NH.....	5.87	6.94	7.42	7.86	8.39	8.77	9.30	NC.....	5.37	6.35	6.68	7.01	7.29	7.54	7.83
VT.....	6.14	7.35	7.66	8.03	8.41	8.83	9.12	SC.....	5.55	6.68	7.03	7.28	7.61	7.92	8.10
MA.....	6.51	7.58	8.01	8.50	9.00	9.24	9.77	GA.....	5.77	6.75	7.13	7.58	8.10	8.35	8.51
RI.....	5.59	6.61	6.92	7.33	7.59	7.90	8.19	FL.....	5.98	7.02	7.33	7.62	7.86	8.02	8.16
CT.....	7.08	8.23	8.76	9.22	9.57	10.07	10.46	E.S.C.:							
M.A.:								KY.....	7.34	8.38	8.79	9.28	9.53	9.86	10.04
NY.....	7.18	8.35	8.84	9.22	9.67	9.92	10.09	TN.....	6.08	7.16	7.48	7.93	8.29	8.58	8.78
NJ.....	7.31	8.66	9.11	9.50	9.86	10.12	10.42	AL.....	6.49	7.33	7.58	7.97	8.48	8.84	8.76
PA.....	7.59	8.63	8.95	9.28	9.57	9.74	9.98	MS.....	5.44	6.41	6.70	6.95	7.22	7.46	7.59
E.N.C.:								AR.....	5.71	6.69	7.05	7.31	7.57	7.78	7.88
OH.....	8.57	10.07	10.56	10.96	11.38	11.58	11.73	LA.....	7.74	8.26	8.79	10.06	10.43	10.60	10.90
IN.....	8.49	9.79	10.10	10.45	10.71	10.81	11.08	OK.....	7.36	8.69	9.21	9.64	9.86	9.80	10.14
IL.....	8.02	9.31	9.70	10.06	10.37	10.67	10.85	TX.....	7.15	8.60	8.88	9.04	9.41	9.65	9.85
MI.....	9.52	11.18	11.62	12.18	12.64	12.80	12.97	M.L.:							
WI.....	8.03	9.37	9.78	10.03	10.26	10.35	10.55	MT.....	8.76	9.66	10.44	10.78	10.95	10.94	10.61
W.N.C.:								ID.....	7.55	8.62	8.98	9.34	9.41	9.66	9.70
MN.....	7.61	9.11	9.56	9.75	10.05	10.20	10.37	WY.....	7.01	8.62	8.73	9.14	9.64	9.68	9.78
IA.....	8.67	10.01	10.09	10.24	10.32	10.35	10.61	CO.....	7.63	8.63	8.97	9.24	9.52	9.82	10.11
MO.....	7.26	8.46	8.89	9.31	9.57	9.83	9.99	NM.....	5.79	7.22	7.60	7.97	8.41	8.75	8.74
ND.....	6.56	7.50	7.73	7.86	8.05	8.19	8.43	AZ.....	7.29	8.73	8.99	9.08	9.48	9.68	9.94
SD.....	6.50	7.36	7.31	7.14	7.43	7.75	7.94	UT.....	7.02	8.40	8.69	8.92	9.64	9.98	9.95
NE.....	7.38	8.47	8.76	8.93	9.02	9.26	9.34	N.V.:	7.72	8.80	9.02	9.12	9.15	9.36	9.76
KS.....	7.37	8.80	9.23	9.38	9.45	9.76	9.97	Pac.:							
DE.....	7.58	8.64	9.19	9.28	9.86	10.05	10.69	WA.....	(NA)	11.23	11.42	11.57	11.63	11.65	11.70
MD.....	7.61	8.78	9.02	9.45	9.73	9.91	10.08	OR.....	8.65	10.02	10.25	10.44	10.50	10.57	10.55
DC ⁴	8.46	9.37	9.75	10.10	10.48	10.40	10.74	CA.....	7.70	9.24	9.52	9.77	10.12	10.37	(NA)

NA Not available. ¹ Represents Washington, DC metropolitan area.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly. Compiled from data supplied by cooperating State agencies.

Manufactures

NO. 1268. MANUFACTURES SUMMARY,

[Sum of State totals may not add to U.S. total]

DIVISION AND STATE	1977					1982						
	Establishments, total ¹	All employees ²		Value added by manufacture ⁴ (mil. dol.)	Establishments, total ¹	All employees ²		Production workers ²		Value added by manufacture ⁴ (mil. dol.)	Value of shipments ⁵ (mil. dol.)	
		Number ³ (1,000)	Payroll (mil. dol.)			Number ³ (1,000)	Payroll (mil. dol.)	Number ³ (1,000)	Wages (mil. dol.)			
1 U.S.	359,928	19,590	264,013	585,166	358,061	19,094	379,627	12,401	204,787	824,118	1,960,206	
2 N.E.	25,737	1,391	17,603	35,588	25,659	1,445	27,603	916	13,874	56,213	105,938	
3 ME.	2,157	103	2,343	2,343	2,009	110	1,775	86	1,237	4,038	8,649	
4 NH.	1,825	95	1,028	2,175	1,981	107	1,792	75	1,065	4,004	7,636	
5 VT.	1,030	42	498	1,050	1,104	47	863	30	424	2,037	3,730	
6 MA.	11,133	614	7,819	16,349	11,017	643	12,353	397	6,001	25,968	48,204	
7 RI.	3,107	125	1,327	2,737	2,855	114	1,760	83	1,052	3,793	7,652	
8 CT.	6,485	412	5,852	10,934	6,693	424	9,060	245	4,095	16,373	30,087	
9 M.A.	71,009	3,617	49,843	103,160	65,443	3,353	68,316	2,048	33,333	139,387	294,829	
10 NY.	36,578	1,510	20,676	44,290	32,651	1,419	29,158	836	13,270	62,907	121,469	
11 NJ.	15,696	778	10,924	22,853	15,128	754	15,845	440	7,207	31,656	70,420	
12 PA.	18,755	1,929	18,043	36,017	17,666	1,180	23,315	772	12,856	44,824	102,840	
13 E.N.C.	69,237	4,974	78,908	160,224	67,378	4,337	92,400	2,684	52,063	184,757	440,702	
14 OH.	17,354	1,331	20,356	43,055	16,980	1,102	24,740	695	13,816	49,641	112,278	
15 IN.	8,061	706	10,439	22,718	7,960	585	12,559	406	7,821	25,747	63,832	
16 IL.	19,517	1,286	18,741	40,279	18,618	1,069	22,681	670	11,931	47,705	112,929	
17 MI.	15,627	1,116	20,054	37,566	15,158	884	22,223	684	12,505	39,118	99,715	
18 WI.	8,678	535	7,318	16,806	8,682	697	10,197	329	5,990	22,546	52,448	
19 W.N.C.	24,321	1,297	17,388	40,666	23,940	1,272	25,430	803	13,652	60,413	155,543	
20 MN.	6,637	832	4,693	9,605	6,775	350	7,423	201	3,425	15,367	35,321	
21 IA.	3,783	240	3,383	8,684	3,598	213	4,403	140	2,649	12,078	31,397	
22 MO.	7,355	433	5,709	13,087	7,069	406	8,013	256	4,199	18,834	41,459	
23 ND.	571	14	162	473	587	15	246	10	141	652	2,465	
24 SD.	740	23	251	612	748	25	398	18	262	1,100	3,005	
25 NE.	1,965	88	1,075	2,867	1,928	92	1,684	64	1,015	4,445	15,143	
26 KS.	3,270	168	2,115	5,338	3,235	171	3,323	113	1,958	8,437	26,753	
27 S.A.	47,892	2,822	33,504	72,306	48,855	2,930	45,588	2,081	28,351	112,450	256,625	
28 DE.	619	67	1,141	1,596	632	68	1,743	32	557	2,467	8,383	
29 MD.	3,937	243	3,420	7,116	3,883	234	4,859	146	2,551	10,134	21,282	
30 DC.	555	19	298	810	514	17	394	6	125	929	1,537	
31 VA.	5,519	395	6,442	10,882	5,568	391	6,649	287	4,192	17,256	36,803	
32 WV.	1,857	117	1,621	3,880	1,662	96	2,007	65	1,233	4,049	9,869	
33 NC.	9,954	765	7,519	18,231	10,133	789	11,717	605	7,297	28,492	64,176	
34 SC.	4,229	374	3,805	8,187	4,206	368	5,540	279	3,576	12,219	27,836	
35 GA.	6,623	485	5,125	12,549	8,534	503	7,906	369	4,864	19,192	48,056	
36 FL.	12,399	358	4,133	9,255	13,723	454	7,773	292	3,956	18,112	39,683	
37 E.S.C.	19,187	1,328	14,506	36,214	18,573	1,241	20,132	924	13,053	49,514	119,698	
38 KY.	3,548	278	3,452	9,546	3,502	247	4,639	174	2,874	11,820	26,938	
39 TN.	6,487	480	5,219	12,663	6,417	482	7,378	388	4,603	17,823	40,777	
40 AL.	5,863	341	3,773	8,406	5,528	330	5,294	254	3,598	12,046	29,794	
41 MS.	3,289	219	2,082	5,819	3,126	202	2,881	158	1,978	7,825	19,488	
42 W.S.C.	29,796	1,442	18,319	52,043	31,876	1,648	32,573	1,082	17,961	81,011	271,595	
43 AR.	3,595	197	1,832	4,882	3,313	190	2,824	149	1,932	7,755	19,747	
44 LA.	4,276	195	2,683	9,418	4,107	202	4,304	142	2,731	11,755	57,058	
45 OK.	3,818	164	2,051	4,682	4,168	197	4,010	121	2,065	8,143	23,116	
46 TX.	18,107	886	11,653	33,081	20,288	1,059	21,435	670	11,233	53,358	171,674	
47 MI.	13,808	461	5,992	13,821	14,854	556	10,663	342	5,569	23,134	56,997	
48 MT.	1,168	24	312	802	1,050	20	379	15	265	714	3,668	
49 ID.	1,495	52	625	1,430	1,404	48	865	84	545	2,077	5,370	
50 WY.	505	9	111	381	511	10	183	7	115	408	2,558	
51 CO.	3,648	153	2,125	4,472	4,406	192	3,983	110	1,877	8,057	17,963	
52 NM.	1,323	29	297	734	1,223	33	521	22	297	1,388	3,815	
53 AZ.	2,892	111	1,463	3,333	3,407	150	3,037	87	1,423	6,162	12,907	
54 UT.	1,748	70	867	1,974	1,962	83	1,539	54	837	3,455	8,960	
55 NV.	729	15	192	495	851	20	356	13	210	863	1,756	
56 Pac.	59,106	2,255	31,929	71,245	61,483	2,516	53,724	1,543	26,934	116,846	256,280	
57 WA.	6,723	265	4,054	8,955	6,788	291	6,681	178	3,624	12,596	34,665	
58 OR.	5,718	202	2,760	6,138	5,659	185	3,783	130	3,334	7,973	17,897	
59 CA.	45,289	1,752	24,672	54,882	47,825	2,005	42,630	1,209	20,581	94,388	199,695	
60 AK.	429	11	166	504	445	13	270	10	197	769	2,580	
61 HI.	949	25	277	786	966	24	360	216	1,218	1,120	3,443	

X Not applicable. ¹ Includes central administrative offices and auxiliary units. ² Includes employment and payroll at administrative offices and auxiliary units. ³ "All employees" represents the average of "production workers" plus all other employees for the payroll period ended nearest the 12th of March. "Production workers" represents the average of the employment for the payroll periods ended nearest the 12th of March, May, August, and November.

Manufactures, by State

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BY STATE: 1977 TO 1986

because U.S. and State figures were independently derived)

1986					Leading major industry groups ranked by value added by manufacturer, 1982
All employees ³		Production workers ²		Value added by manufacturer ⁴	
Number ³ (1,000)	Payroll (mil. dol.)	Number ³ (1,000)	Wages (mil. dol.)	Value of shipments ⁵ (mil. dol.)	
18,371	450,806	11,767	236,599	1,035,821	2,260,315
1,367	33,937	821	15,885	72,032	129,074
101	2,076	77	1,389	4,777	10,092
102	2,312	69	1,320	5,249	9,443
43	1,025	28	492	2,209	4,153
615	15,511	356	6,830	33,945	60,983
108	2,121	76	1,205	4,439	8,429
398	10,892	220	4,649	21,413	35,974
2,990	75,019	1,778	34,727	163,215	319,484
1,268	32,658	712	13,778	73,259	138,122
680	17,931	387	7,787	37,867	73,065
1,042	24,450	679	13,162	52,089	108,277
4,080	111,796	2,667	63,768	245,282	549,752
1,087	29,803	703	16,966	66,167	145,538
575	14,772	403	9,214	34,976	75,670
989	25,830	600	12,954	58,621	123,839
943	29,582	629	17,582	56,879	140,574
486	11,809	332	7,072	28,639	64,130
1,272	30,934	794	15,973	76,295	183,926
357	9,526	202	4,116	19,759	42,790
193	4,506	127	2,617	13,219	31,218
407	9,916	257	5,280	24,045	59,248
14	273	9	154	715	2,281
26	487	19	308	1,496	3,938
88	1,822	83	1,141	5,363	15,057
187	4,404	117	2,377	11,699	30,393
2,970	61,695	2,073	35,162	155,957	333,892
64	2,025	30	702	3,020	8,664
218	5,655	133	2,876	12,371	26,068
16	489	6	130	1,302	1,854
407	8,670	298	5,346	24,010	47,346
86	2,081	61	1,294	4,775	10,736
803	14,979	596	9,168	42,162	84,935
353	6,775	268	4,346	16,472	36,119
543	10,941	385	6,523	28,784	87,848
480	10,080	296	4,777	23,081	50,322
1,239	24,699	924	16,035	64,068	148,322
238	5,433	171	3,399	15,909	37,349
467	9,275	341	5,859	23,625	52,717
329	6,432	252	4,368	15,560	36,837
205	3,559	160	2,429	8,974	21,719
1,417	33,860	902	17,851	86,880	237,317
193	3,563	151	2,390	9,164	22,131
158	3,951	108	2,465	12,641	43,861
159	3,902	100	2,112	9,002	22,393
907	22,444	543	10,884	56,073	148,932
569	13,702	337	6,615	31,875	64,888
20	412	15	291	907	2,998
49	1,043	35	649	2,611	5,920
7	150	5	106	370	1,835
181	4,901	98	2,117	10,397	20,190
34	649	22	338	1,832	3,776
165	4,012	93	1,853	9,509	17,730
92	2,083	56	1,029	4,983	10,389
21	452	13	232	1,156	2,225
2,472	65,168	1,465	30,586	140,219	293,861
279	7,648	166	3,796	15,668	42,310
187	4,369	128	2,618	9,908	21,733
1,974	52,296	1,148	23,768	112,968	224,517
9	231	7	165	501	2,015
23	424	16	239	1,174	3,086

⁴ For definition, see footnote 6, table 1264.

⁵ See footnote 7, table 1264.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977* and *1982* and *Annual Survey of Manufactures*.

Manufactures

No. 1269. FINANCES OF MANUFACTURING CORPORATIONS: 1970 TO 1987

[In billions of dollars. Beginning 1986, data exclude estimates for corporations with less than \$250,000 in assets at time of sample selection. Prior period includes estimates for corporations in this size category. See table 892 for individual industry data.]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Net sales.....	709	1,065	1,328	1,496	1,742	1,897	2,145	2,039	2,114	2,335	2,331	2,221	2,378
Net operating profit.....	50	77	107	122	135	129	144	105	125	159	138	125	158
Net profit:													
Before taxes.....	48	80	115	133	154	145	158	108	133	166	137	129	173
After taxes.....	29	49	70	81	99	92	101	71	86	108	88	83	116
Cash dividends.....	15	20	27	29	32	36	40	41	42	45	46	48	50
Net income retained in business.....	14	29	44	52	66	58	61	30	44	63	42	37	66

Source: Through 1981, U.S. Federal Trade Commission; thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations*, first quarter report of year subsequent to reported year.

No. 1270. CAPITAL IN MANUFACTURING ESTABLISHMENTS: 1975 TO 1987

[In billions of dollars, except percent. Minus sign (-) indicates decline. Data refer to privately owned manufacturing establishments and are based on the capital expenditures data from the census of manufactures, the Annual Survey of Manufactures, and the inventory investment component of GNP. For details, see source.]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS					
	1975	1980	1984	1985	1986	1987	1975	1980	1984	1985	1986	1987
Purchases of equipment and structures.....	38.5	75.3	76.4	83.7	76.9	79.0	65.1	86.8	75.1	84.6	76.1	76.7
Percent equipment.....	79.3	80.4	80.3	80.0	80.6	81.1	78.7	80.4	81.6	82.4	83.0	83.8
Depreciation (straight line) ¹	28.7	53.1	71.7	74.2	77.1	79.7	49.8	62.0	69.9	72.2	74.3	75.9
Percent equipment.....	76.7	78.7	78.8	78.6	78.6	78.3	76.6	78.9	80.0	80.4	80.8	81.1
Net investment ²	9.7	22.2	4.6	9.5	-2	-7	15.3	24.9	5.1	12.4	1.8	.8
Net stock, end of year ¹	529.1	944.8	1,132.5	1,145.1	1,154.3	1,199.1	879.1	1,034.0	1,074.2	1,078.6	1,078.2	1,085.6
Equipment and structures.....	351.3	633.9	789.0	811.7	830.2	852.9	597.2	707.2	744.2	758.0	761.1	763.3
Percent equipment.....	64.4	67.0	66.7	65.8	66.8	66.6	64.0	67.4	68.3	68.7	69.0	69.4
Inventories.....	177.8	310.7	343.4	333.4	324.2	346.2	281.9	326.8	330.0	320.6	317.1	322.3

¹ Depreciation and net stock estimates are derived using the perpetual inventory method and the straight-line depreciation formula.
² Represents the difference between purchases and depreciation.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82, Fixed Reproducible Tangible Wealth in the United States, 1925-85*, and *Survey of Current Business*, January 1986, July 1987, August 1987, July 1988, and August 1988.

No. 1271. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS: 1950 TO 1987

[In billions of dollars, except ratio. See also *Historical Statistics, Colonial Times to 1970*, series P 74-92]

YEAR	Shipments, total	Inven- tories, total (Dec. 31) ¹	Ratio of inven- tories to ship- ments ²	New orders, total	Un- filled ord- ers, total (Dec. 31)	YEAR	Ship- ments, total	Inven- tories, total (Dec. 31) ¹	Ratio of inven- tories to ship- ments ²	New orders, total	Un- filled ord- ers, total (Dec. 31)																												
1950.....	224	32	1.41	242	41	1950.....	634	101	1.91	625	106																												
1951.....	261	39	1.78	287	67	1951.....	671	102	1.76	672	107																												
1952.....	270	42	1.71	279	76	1952.....	756	108	1.58	770	120																												
1953.....	298	44	1.90	283	60	1953.....	875	124	1.63	913	158																												
1954.....	280	42	1.71	268	48	1954.....	1,018	158	1.86	1,047	187																												
1955.....	318	45	1.63	330	60	1955.....	1,039	160	1.77	1,023	171																												
1956.....	333	51	1.74	340	68	1956.....	1,186	175	1.66	1,194	180																												
1957.....	345	52	1.90	331	53	1957.....	1,358	188	1.58	1,381	202																												
1958.....	327	50	1.75	324	47	1958.....	1,523	209	1.55	1,580	259																												
1959.....	363	53	1.68	369	52	1959.....	1,727	239	1.61	1,771	303																												
1960.....	371	54	1.79	363	45	1960.....	1,853	262	1.61	1,876	326																												
1961.....	371	55	1.67	373	47	1961.....	2,018	280	1.74	2,016	323																												
1962.....	400	58	1.76	401	48	1962.....	1,980	307	1.91	1,947	310																												
1963.....	421	60	1.66	426	53	1963.....	2,055	308	1.82	2,089	345																												
1964.....	448	63	1.62	460	65	1964.....	2,254	330	1.78	2,277	368																												
1965.....	492	68	1.58	505	79	1965.....	2,280	322	1.72	2,291	379																												
1966.....	538	78	1.70	557	97	1966.....	2,260	311	1.64	2,264	392																												
1967.....	558	84	1.71	565	104	1967.....	2,390	326	1.60	2,424	416																												
1968.....	603	90	1.76	608	110	1968.....																																	
1969.....	642	98	1.81	647	115	1969.....																																	

¹ Beginning in 1982 inventories are stated at current cost and are not comparable to the book value estimates for prior years.

² Ratio based on December seasonally adjusted data.

Source: U.S. Bureau of the Census, *Current Industrial Reports, Manufacturers' Shipments, Inventories, and Orders: 1982-1987*, series M3-1,86, M3-1(B8).

Value of Shipments and Inventories

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NO. 1272. VALUE OF MANUFACTURES SHIPMENTS AND INVENTORIES—SELECTED INDUSTRIES: 1980 TO 1987

[In billions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series P 74-79]

SIC ¹ code	INDUSTRY	1980	1981	1982	1983	1984	1985	1986	1987
(x)	Shipments, total	1,852.7	2,017.5	1,960.2	2,054.9	2,254.4	2,280.2	2,260.3	2,390.0
(x)	Durable goods industries ²	930.6	1,006.5	952.2	1,019.5	1,159.5	1,188.2	1,199.9	1,263.5
32	Stone, clay, and glass products	46.1	48.0	45.2	48.7	53.4	55.1	57.3	62.1
33	Primary metals	133.9	141.9	104.7	108.5	119.1	110.5	105.6	117.1
34	Fabricated metal products	116.2	123.7	119.4	122.1	135.9	139.6	138.0	135.0
35	Machinery, exc. electrical ²	180.7	201.5	187.9	179.0	210.4	215.2	208.5	216.6
351	Engines and turbines	13.7	15.3	13.0	12.2	15.5	14.9	14.1	14.4
353	Construction mining and material handling equipment	33.6	39.0	32.0	24.8	27.1	27.7	25.9	25.8
357	Office and computing machines	32.4	37.8	43.0	48.2	59.7	62.2	58.8	61.2
36	Electrical machinery ²	128.8	140.2	147.9	159.2	187.6	193.4	196.2	210.7
361-2	Elec. transmission and distribution	21.3	23.4	21.9	21.5	24.7	24.7	24.6	25.8
363	Household appliances	12.9	13.1	12.6	14.5	16.3	16.2	16.6	18.0
365	Radio and TV	8.5	8.8	7.8	8.9	9.9	11.4	11.9	11.5
366	Communication equipment	36.0	40.3	46.4	49.9	56.7	65.4	67.4	70.8
37	Transportation equipment ²	186.5	205.2	201.3	244.1	281.2	301.4	313.8	323.0
371	Motor vehicles and parts	104.6	117.0	112.3	147.3	179.3	188.5	191.6	197.0
372, 6	Aircraft, missiles, and parts	58.5	64.8	65.4	74.8	78.8	90.8	101.0	103.7
38	Instruments and related products ²	44.1	48.3	51.8	53.6	59.4	61.0	61.9	66.8
381-4	Scientific and engineering equipment	25.6	28.7	32.3	33.8	38.3	40.6	40.8	44.7
386	Photographic goods	15.9	16.9	17.0	17.4	18.7	18.1	18.6	19.8
(x)	Nondurable goods industries ²	922.1	1,011.1	1,008.0	1,035.4	1,095.0	1,092.0	1,060.5	1,126.6
20	Food and kindred products ²	256.2	272.1	280.5	287.1	300.0	301.6	308.5	325.0
208	Beverages	33.0	36.1	38.8	40.2	41.2	43.2	45.6	44.8
21	Tobacco products	12.2	13.1	16.1	16.3	17.4	18.5	18.1	19.9
22	Textile mill products	47.3	50.3	47.5	53.4	55.5	53.3	55.3	57.5
26	Paper and allied products ²	72.8	80.2	79.9	84.6	94.8	93.4	97.9	110.3
261-3,	Paper, pulp, paperboard mill products	31.8	35.1	34.0	36.1	41.4	39.2	41.0	47.0
265	Paperboard containers	17.2	19.0	19.2	20.5	22.6	22.7	23.1	26.8
28	Chemicals and allied products ²	162.5	180.5	170.7	183.2	198.2	197.3	197.1	212.7
281	Industrial inorganic chemicals	57.3	62.7	53.2	56.8	61.5	59.5	54.1	59.5
283-4	Drugs, soaps, toiletries	41.8	46.9	50.7	54.4	57.5	60.9	65.8	67.1
29	Petroleum and coal products	198.7	224.1	208.9	192.6	189.0	179.1	124.9	124.5
30	Rubber and plastics products	47.3	53.2	55.4	60.3	69.5	71.3	73.4	80.5
(x)	Inventories, total (Dec. 31)	261.7	279.5	307.2	308.0	329.6	322.4	311.1	325.7
(x)	Durable goods industries ²	172.2	183.6	197.0	196.6	214.5	209.9	204.2	212.3
32	Stone, clay, and glass products	5.8	6.3	6.7	6.9	7.1	7.0	7.0	7.1
33	Primary metals	23.1	25.7	23.9	22.0	21.9	19.5	17.6	18.0
34	Fabricated metal products	19.2	19.9	21.1	21.6	22.6	21.9	21.4	22.4
35	Machinery, exc. electrical ²	40.3	43.0	47.2	43.9	47.4	44.6	41.2	41.1
351	Engines and turbines	2.6	2.8	3.3	2.9	3.0	2.6	2.5	2.5
353	Construction mining and material handling equipment	9.2	9.9	11.9	9.9	9.1	7.7	6.8	6.5
357	Office and computing machines	8.4	9.2	10.0	10.5	13.2	11.9	10.4	10.5
36	Electrical machinery ²	25.4	27.8	30.0	31.4	37.6	37.6	37.5	38.4
361-2	Elec. transmission and distribution	4.1	4.6	4.9	4.7	5.3	5.0	4.8	4.8
363	Household appliances	1.8	2.0	2.3	2.4	2.7	2.5	2.6	2.7
365	Radio and TV	1.3	1.4	1.1	1.1	1.4	1.3	1.4	1.3
366	Communication equipment	8.8	9.9	10.8	11.6	14.7	15.6	15.8	16.1
367	Electronic components	5.4	5.7	6.4	6.8	8.0	7.6	7.2	7.7
37	Transportation equipment ²	35.3	37.0	42.3	43.5	49.5	50.9	50.9	55.9
371	Motor vehicles and parts	9.6	8.9	8.5	10.1	11.6	11.7	11.1	11.4
372, 6	Aircraft, missiles, and parts	21.7	24.1	29.7	29.8	34.4	35.9	36.4	40.8
38	Instruments and related products ²	8.8	9.4	10.9	11.2	12.2	12.4	12.2	12.3
381-4	Scientific and engineering equipment	6.0	6.4	7.7	7.9	8.9	9.1	9.2	9.2
386	Photographic goods	2.2	2.4	2.6	2.8	2.7	2.7	2.5	2.6
(x)	Nondurable goods industries ²	89.5	95.8	110.2	111.4	115.1	112.5	106.9	113.4
20	Food and kindred products ²	22.4	22.1	23.6	24.1	24.4	24.0	24.0	25.2
208	Beverages	3.8	3.8	4.4	4.3	4.4	4.6	4.8	4.5
21	Tobacco products	3.9	4.6	7.2	7.2	6.9	6.2	5.9	5.9
22	Textile mill products	6.5	6.7	6.6	7.3	7.5	7.0	6.9	7.2
26	Paper and allied products ²	7.7	8.5	8.9	9.2	10.1	9.9	10.2	11.1
261-3,	Paper, pulp, paperboard mill products	2.9	3.2	3.5	3.4	3.8	3.8	3.7	3.9
265	Paperboard containers	1.9	2.3	2.3	2.5	2.7	2.5	2.6	2.9
28	Chemicals and allied products ²	19.6	22.0	23.8	24.4	25.5	25.1	24.2	24.8
281	Industrial inorganic chemicals	6.5	7.3	7.9	7.7	8.0	7.5	6.8	6.6
283-4	Drugs, soaps, toiletries	5.9	6.4	6.7	7.0	7.5	7.7	8.1	8.7
29	Petroleum and coal products	9.9	10.6	17.2	15.1	14.3	13.9	9.2	9.8
30	Rubber and plastics products	6.0	6.5	7.2	7.4	8.2	8.4	8.3	9.0

X Not applicable. ¹ Standard Industrial Classification. ² Includes industries not shown separately.

Source: U.S. Bureau of the Census, *Current Industrial Reports, Manufactures' Shipments, Inventories, and Orders: 1982-1988*, series M3-1.86 M3-1(88).

Manufactures

NO. 1273. INDUSTRIAL PRODUCTION INDEXES, BY INDUSTRY: 1970 TO 1987

[1977=100. Based on 1977 Standard Industrial Classification Manual; see text, section 6. See also Historical Statistics, Colonial Times to 1970, series P 13 and P 18-39.]

SIC 1 code	MAJOR INDUSTRY GROUP	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
(x)	Industrial production	79	85	107	111	109	111	103	108	121	124	125	130
(x)	Manufacturing	77	83	107	112	100	111	102	110	123	126	129	135
(x)	Durable goods	78	83	108	114	109	111	100	108	124	127	128	133
24	Lumber products	81	81	102	102	93	90	83	100	109	113	124	130
25	Furniture and fixtures	75	80	109	112	109	110	105	118	134	140	144	153
32	Clay, glass, and stone products	78	83	109	111	102	99	88	99	113	116	118	119
33	Primary metals	95	88	107	109	90	95	66	73	82	81	75	81
34	Fabricated metal products	82	83	106	109	102	102	87	89	103	107	108	111
35	Nonelectrical machinery	73	85	112	123	123	130	116	118	142	145	145	153
36	Electrical machinery	69	77	113	126	130	134	128	144	171	168	166	172
37	Transportation equipment	75	81	106	108	97	95	88	99	112	121	128	129
38	Instruments	60	81	112	118	122	126	125	123	137	139	140	144
(x)	Nondurable goods	76	85	106	108	107	110	106	114	122	125	130	137
20	Food	82	90	104	107	111	114	115	120	127	130	134	138
21	Tobacco products	92	100	105	105	106	109	105	101	100	100	97	104
22	Textile mill products	81	85	103	104	101	98	89	101	104	103	109	116
26	Paper and products	81	85	107	111	111	112	109	120	127	128	137	144
27	Printing and publishing	82	84	108	113	115	119	120	130	147	154	161	172
28	Chemicals and products	67	89	107	111	106	113	104	114	122	127	132	140
29	Petroleum products	80	87	103	102	94	89	84	84	87	87	93	94
30	Rubber and plastics products	58	73	108	115	108	116	110	124	144	147	151	164
31	Leather and products	117	102	102	95	93	93	82	82	77	69	61	60
(x)	Mining	99	97	104	106	112	118	109	103	111	109	100	101
(x)	Utilities	81	94	103	106	107	107	105	105	111	112	109	110

X Not applicable. ¹ Standard Industrial Classifications.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

No. 1274. INDEX OF MANUFACTURING CAPACITY: 1950 TO 1988

[1977 output=100. Annual figures are averages of quarterly data. Capacity represents estimated quantity of output, relative to output in 1967, which the current stock of plant and equipment in manufacturing industries was capable of producing. Primary processing industries comprise textiles, lumber, paper and pulp, petroleum, rubber, stone, clay, glass, primary metals, fabricated metals, and a portion of chemicals. Advanced processing industries comprise chemical products, food, beverages, tobacco, apparel, furniture, printing and publishing, leather, machinery, transportation equipment, instruments, ordnance, and miscellaneous industry groups]

YEAR	Index of capacity	RELATION OF OUTPUT TO CAPACITY (percent)			YEAR	Index of capacity	RELATION OF OUTPUT TO CAPACITY (percent)		
		All manufacturing	Primary processing	Advanced processing			All manufacturing	Primary processing	Advanced processing
1950	40	83	89	80	1979	130	85	87	84
1960	60	80	80	81	1980	134	79	78	80
1965	73	90	91	89	1981	139	78	78	78
1970	97	79	81	78	1982	143	70	68	72
1971	101	77	80	76	1983	146	74	74	74
1972	104	83	86	81	1984	150	81	81	80
1973	108	87	91	85	1985	154	80	81	80
1974	112	83	85	82	1986	158	80	82	79
1975	116	72	72	73	1987	161	81	85	79
1976	119	77	79	77	1988: 1st qtr	163	83	87	81
1977	123	81	83	81	2d qtr	164	83	87	81
1978	126	84	86	83					

Source: Board of Governors of the Federal Reserve System, *Capacity Utilization In Manufacturing, Mining, Utilities, and Industrial Materials*, G.3, monthly. (Based on data from Federal Reserve Board, U.S. Dept. of Commerce, U.S. Bureau of Labor Statistics, and McGraw-Hill Information Systems Company, New York, NY; and other sources.)

No. 1275. LARGE MANUFACTURING COMPANIES—ADEQUACY OF CAPITAL FACILITIES: 1970 TO 1987

[Percent distribution. As of July. Number of companies weighted by company assets. Based on replies to the question, "In view of the current rate of order bookings and customer inquiries, are your plant-and-equipment facilities now: Inadequate, Sufficient, or More than adequate?" as part of a quarterly survey conducted among the 1,000 largest manufacturing companies as listed by total assets]

YEAR	Inadequate	Sufficient	More than adequate	YEAR	Inadequate	Sufficient	More than adequate
1970	28	60	12	1980	12	57	31
1973	45	53	2	1981	9	51	40
1974	57	40	3	1982	8	45	47
1975	19	43	38	1983	6	48	46
1976	18	65	17	1984	8	55	37
1977	20	68	14	1985	10	52	38
1978	20	62	18	1986	8	55	37
1979	20	69	11	1987	8	71	21

Source: The Conference Board, New York, NY, *Quarterly Survey of Capital Investment and Supply Conditions in Manufacturing* (copyright).

No. 1276. LARGE MANUFACTURING COMPANIES—CAPITAL APPROPRIATIONS AND EXPENDITURES, BY INDUSTRY: 1980 TO 1987

[In millions of dollars. Based on reports submitted by companies responding to The Conference Board's *Quarterly Survey of Capital Appropriations*. This survey is conducted among the 1,000 largest manufacturing companies as listed by total assets. Appropriations: Authorizations by management to spend funds for new plant and equipment; expenditures: Cost of new plant and equipment.]

INDUSTRY	APPROPRIATIONS					EXPENDITURES				
	1980	1984	1985	1986	1987	1980	1984	1985	1986	1987
Total.....	103,579	117,448	108,855	85,677	119,168	87,007	89,489	99,358	93,628	103,935
Food and beverages.....	6,650	6,977	8,139	8,117	10,180	5,017	5,372	6,535	7,192	9,357
Paper and allied products.....	3,515	6,278	3,200	4,845	7,308	3,839	3,784	3,951	4,519	5,407
Chemical's and allied products.....	12,160	11,830	11,528	11,291	14,272	10,906	11,146	10,610	11,765	11,624
Petroleum and coal products.....	33,597	26,200	25,823	13,045	15,841	22,044	21,569	21,866	14,836	14,298
Primary iron and steel.....	2,101	1,485	1,762	1,594	2,165	2,801	1,443	1,815	1,387	1,174
Electrical machinery and equipment.....	6,519	11,923	8,284	9,288	22,297	6,183	9,850	9,165	9,499	18,688
Machinery, except electrical.....	8,891	10,828	11,446	7,490	8,688	9,301	8,557	10,222	6,801	6,608
Motor vehicles and equipment.....	7,012	16,690	11,849	6,274	6,584	5,558	6,680	10,275	12,363	9,104
Other transportation equipment.....	3,633	5,272	5,835	5,471	6,224	3,744	4,306	5,183	6,127	5,822
Instruments and photo equipment.....	3,153	4,849	4,008	3,517	3,913	2,873	4,163	3,786	3,408	3,536
Rubber products.....	873	1,670	4,744	1,519	1,608	803	1,215	3,439	2,717	1,361
Other manufacturing.....	15,475	13,446	12,237	13,216	20,091	12,938	11,224	12,511	13,012	16,946

Source: The Conference Board, New York, NY, *Quarterly Survey of Capital Appropriations*. (Copyright.)

No. 1277. U.S. SHARE OF WORLD EXPORTS OF MANUFACTURES: 1980 TO 1987

[World exports=exports from 15 major trading countries: United States, Austria, Belgium-Luxembourg, Canada, Denmark, France, West Germany, Italy, Japan, Netherlands, Norway, Sweden, Switzerland, and United Kingdom. Percents are calculated from the values of exports of the five commodity groups from each of the 15 countries. Percentage shares are based on dollar values calculated at current exchange rates. Details are reported according to Revision 2 of the United Nations Standard International Trade Classification (SITC)]

PRODUCT CATEGORY	TOTAL (bil. dol.)						PERCENT OF WORLD EXPORTS					
	1980	1983	1984	1985	1986	1987	1980	1983	1984	1985	1986	1987
Total ¹	147.2	136.4	148.2	150.7	155.1	179.4	16.8	17.0	17.3	16.7	14.1	13.9
Machinery.....	57.1	56.3	63.0	62.7	64.0	73.0	21.4	22.2	22.8	21.4	18.3	17.2
Transport equipment.....	28.9	28.4	30.0	35.2	35.4	40.8	18.3	17.6	17.3	18.7	15.7	15.5
Chemicals.....	20.8	19.9	22.6	21.5	22.4	26.7	17.9	18.3	19.5	17.9	15.5	15.3
Basic manufactures ²	23.3	16.1	18.4	15.0	15.2	18.0	10.1	8.9	8.7	7.9	6.8	6.9
Misc. articles ³	17.0	15.6	16.2	16.3	18.1	21.1	16.0	15.9	15.6	14.6	11.8	12.4

¹ Represents manufactures exports. Excludes mineral fuel products, processed food, fats, oils, firearms of war, and ammunition.

² Includes semimanufactures of various materials, such as metals, fibers, wood, glass, leather, rubber, and certain finished products of metal. ³ Includes mainly nondurable consumer goods and professional and scientific instruments.

Source: U.S. Dept. of Commerce, International Trade Administration, Office of Trade and Investment Analysis, *Business America*, biweekly; and *Market Share Reports*, annual.

No. 1278. FOREIGN DIRECT INVESTMENT POSITION IN THE U.S. FOR MANUFACTURING: 1980 AND 1987

[In millions of dollars. Minus sign (—) indicates decrease]

AREA OR COUNTRY	TOTAL ¹		FOOD PRODUCTS		CHEMICALS AND ALLIED PRODUCTS		PRIMARY AND FABRICATED METALS		MACHINERY		
	1980	1987	1980	1987	1980	1987	1980	1987	1980	1987	
	All countries ²	32,993	91,025	4,898	16,004	10,439	30,442	3,576	8,199	6,985	15,157
Canada.....	5,227	7,478	(D)	430	116	399	801	2,555	1,173	1,878	
Europe ²	21,953	70,953	2,088	13,890	8,163	27,637	2,194	3,453	4,463	11,520	
Belgium.....	388	689	(Z)	(D)	185	480	157	(D)	6	—	
France.....	2,291	8,907	111	382	633	4,457	555	785	61	1,369	
Italy.....	50	248	(D)	(D)	(D)	1	5	(D)	14	1,923	
Luxembourg.....	85	50	(D)	(D)	(D)	—	(D)	(D)	2	80	
Netherlands.....	4,777	16,120	225	5,492	2,002	6,046	170	533	1,084	1,498	
United Kingdom.....	6,159	23,510	1,098	4,156	2,301	9,077	524	1,115	1,097	1,736	
Sweden.....	994	3,018	1	—2	67	378	148	378	613	1,904	
Switzerland.....	3,118	8,321	588	(D)	1,154	2,445	264	(D)	881	1,011	
West Germany.....	3,875	8,002	43	36	1,615	4,684	333	255	832	1,369	
Japan.....	1,033	5,232	98	164	224	534	78	577	318	1,521	
Australia, New Zealand, and South Africa.....	87	3,115	4	1,342	5	32	44	719	—2	8	
Latin America.....	4,571	3,666	101	24	1,829	1,718	412	569	1,027	197	
Middle East.....	83	250	(D)	(D)	1	5	(D)	(D)	(Z)	15	
Other Africa, Asia and Pacific.....	38	687	(D)	(Z)	116	(D)	(D)	8	20		

¹ Represents zero. D Withheld to avoid disclosure of data of individual companies. Z Less than \$500,000.

² Includes other manufacturing, not shown separately.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, October 1984 and August 1988 issues.

NO. 1279. EMPLOYMENT RELATED TO MANUFACTURED EXPORTS BY INDUSTRY: 1977 TO 1984

[Total employment related to manufactured exports is the sum of employment directly calculated for the plants shipping the exported product, the supplying industries and service organizations and the central administrative offices and auxiliaries. For manufacturing industries, employment is limited to paid employees in manufacturing plants, while for nonmanufacturing it includes an estimate for working proprietors and partners]

INDUSTRY	1977			1980			1983			1984		
	Civilian employment (1,000)	Employment related to manufactured exports		Civilian employment (1,000)	Employment related to manufactured exports		Civilian employment (1,000)	Employment related to manufactured exports		Civilian employment (1,000)	Employment related to manufactured exports	
		Number (1,000)	Percent of civilian employment		Number (1,000)	Percent of civilian employment		Number (1,000)	Percent of civilian employment		Number (1,000)	Percent of civilian employment
U.S.	89,369	3,258	3.6	100,260	4,808	4.8	105,831	3,982	3.7	108,057	4,097	3.8
Manufacturing	19,590	1,890	10.2	20,647	2,639	12.8	18,737	2,173	11.6	19,141	2,179	11.4
Nonmfng.....	89,779	1,268	1.8	79,613	2,170	2.7	87,094	1,789	2.1	88,918	1,918	2.2
Trade.....	16,653	489	2.9	19,737	845	4.3	21,059	818	3.9	21,501	875	4.1
Business serv... Transp.	16,750	216	1.3	17,245	575	3.3	19,816	178	.9	20,105	198	2.6
Agriculture....	3,044	129	4.2	3,225	144	4.5	3,887	121	3.2	3,576	122	3.4
Mining.....	747	34	4.6	947	69	7.3	1,071	43	4.0	1,027	46	4.5
Other.....	27,788	216	.8	32,090	233	.7	36,055	394	1.1	36,743	420	1.1

¹ Includes communications and utilities.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977*, and *Annual Survey of Manufactures, Origin of Exports of Manufactured Products*.

NO. 1280. EXPORT-RELATED SHIPMENTS AND EMPLOYMENT OF MANUFACTURING ESTABLISHMENTS, 1963 TO 1984, AND BY INDUSTRY, 1984

[The export-related employment data shown do not include the jobs involved in the export of nonmanufactured goods and various services sold to foreign buyers. Thus, jobs in the manufacturing sector that relate to the export of nonmanufactured goods are excluded from the estimates. In addition, all of the indirect exports being reported are domestically produced, that is, they exclude imports. See source for further details on methodology]

SIC 1 code	INDUSTRY GROUP	MANUFACTURER'S SHIPMENT VALUE				MANUFACTURING EMPLOYMENT				Export related as percent of total employment	
		Total ² (bil. dol.)	Export related			Export related as percent of shipments	Total ⁵ (1,000)	Export related			
			Total (bil. dol.)	Direct exports ³ (bil. dol.)	Supporting exports ⁴ (bil. dol.)			Total (1,000)	Direct exports ⁶ (1,000)	Supporting exports ⁷ (1,000)	
(X) 1963		420.5		16.5		3.9	16,858		(NA) 770		(NA) 4.0
(X) 1972		756.5		36.7		4.9	19,027				
(X) 1977		1,358.4		142.4		55.8	19,590				10.2
(X) 1980		1,852.7		249.8		151.2	20,647				12.8
(X) 1981		2,017.5		271.7		184.3	20,264				12.9
(X) 1983		2,055.3		246.4		141.6	16,737				11.6
(X) 1984, total ⁵		2,253.8		288.3		151.0	19,141		2,179		11.4
20 Food and kindred products.....		300.0	14.5	10.7	3.8	4.8	1,437	53	38	15	3.7
21 Tobacco products.....		17.4	2.5	2.2	.3	14.6	52	11	10	1	20.3
22 Textile mill products.....		55.4	4.1	1.7	2.4	7.4	711	48	17	31	6.8
23 Apparel, other textile products....		57.8	1.7	1.1	.6	3.0	1,152	23	12	10	2.0
24 Lumber and wood products.....		54.7	4.5	2.4	2.2	8.3	643	42	18	24	6.6
25 Furniture and fixtures.....		30.0	.8	.5	.3	2.7	474	12	7	5	2.4
26 Paper and allied products.....		94.8	10.1	3.8	6.3	10.6	613	59	18	41	9.7
27 Printing and publishing.....		103.5	4.3	1.3	3.1	4.2	1,325	51	11	40	3.9
28 Chemical and allied products....		198.3	32.9	20.1	12.8	16.6	845	128	80	48	15.1
29 Petroleum and coal products....		189.0	14.8	3.9	10.9	7.8	137	10	4	6	7.2
30 Rubber, misc. plastics products...		69.5	8.1	2.8	5.3	11.7	732	81	25	57	11.1
31 Leather, leather products.....		9.3	.6	.5	.1	6.8	170	6	5	1	3.6
32 Stone, clay, glass products....		53.4	3.9	1.7	2.2	7.2	533	39	17	22	7.3
33 Primary metal industries.....		119.1	23.3	4.0	19.3	19.5	805	154	23	131	19.1
34 Fabricated metal products.....		125.9	15.8	6.0	9.8	11.6	1,482	174	62	112	11.8
35 Machinery, except electric.....		210.4	45.2	32.2	12.9	21.5	2,052	408	275	133	19.9
36 Electric, electronic equipment....		188.0	34.2	17.4	16.8	18.2	2,033	381	182	199	18.7
37 Transportation equipment.....		280.2	35.8	29.4	6.4	12.8	1,709	218	179	39	12.8
38 Instruments and related products.....		58.4	9.1	7.9	1.3	15.4	612	98	84	15	16.0
39 Misc. manufacturing.....		27.8	2.0	1.6	.5	7.4	355	23	17	7	6.5

NA Not available. ¹ Standard Industrial Classification; see text, section 13. ² Includes total domestic and export shipments for all manufacturing establishments. ³ Includes only the value of manufactured products exported by the producing plants. ⁴ Includes shipments of components, parts, supplies, etc., used by plants producing the export products. ⁵ Includes employees of central administrative offices and auxiliaries. ⁶ Employment is limited to paid employees in manufacturing plants producing the export product. The number of employees related to export shipments was calculated for each establishment, aggregated by industry and by States, and inflated to a level comparable to the plant value of exports reported in the official foreign trade statistics at port value. ⁷ Manufacturing employment at establishment producing components, parts, supplies, etc., for use by plants producing for export.

⁸ Includes administrative and auxiliary units, not shown separately. Source: U.S. Bureau of the Census, *Census of Manufactures, 1963, 1972, and 1977*; and *Annual Survey of Manufactures, Origin of Exports of Manufactured Products*.

Manufactures Exports

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No. 1281. EXPORT-RELATED SHIPMENTS AND EMPLOYMENT OF MANUFACTURING ESTABLISHMENTS, BY STATE: 1984

[See headnote, table 1280. For composition of regions, see fig. 1, inside front cover. Includes employees of central administrative and auxiliary offices]

REGION, DIVISION, AND STATE	MANUFACTURES SHIPMENT VALUE				MANUFACTURING EMPLOYMENT				
	Total (bil. dol.)	Export related		Export related as per- cent of ship- ments	Total (1,000)	Export related			Export related as percent of total employ- ment
		Total (bil. dol.)	Direct exports (bil. dol.)			Total (1,000)	Direct exports (1,000)	Support- ing exports (1,000)	
U.S.	2,253.8	268.3	151.0	11.9	19,141	2,179	1,063	1,095	11.4
Region:									
Northeast.....	448.5	54.8	31.2	24.1	12.2	4,667	552	287	286
Midwest.....	717.2	81.0	44.9	38.0	11.3	5,546	645	300	346
South.....	735.7	83.1	44.1	38.9	11.4	5,819	560	273	287
West.....	352.5	49.4	31.0	18.4	14.0	3,112	423	244	177
New England.....	124.5	18.0	11.2	7.1	14.5	1,456	195	103	93
Maine.....	9.9	1.2	.7	.5	12.2	108	11	5	10.3
New Hampshire.....	8.8	1.1	.6	.6	12.9	114	14	6	11.9
Vermont.....	3.8	.6	.3	.3	16.2	44	7	3	15.2
Massachusetts.....	58.6	8.8	5.5	3.3	15.0	657	91	48	43
Rhode Island.....	8.5	.9	.5	.5	11.1	114	12	6	10.5
Connecticut.....	34.9	5.4	3.6	1.9	15.6	419	60	34	27
Middle Atlantic.....	324.0	36.8	20.0	17.0	11.4	3,211	357	164	193
New York.....	133.9	16.0	9.8	6.2	11.9	1,347	151	78	73
New Jersey.....	77.7	8.0	4.3	3.8	10.3	738	79	32	47
Pennsylvania.....	112.4	12.8	5.9	7.0	11.4	1,126	127	54	73
East North Central.....	536.4	62.6	33.5	29.0	11.7	4,238	505	224	280
Ohio.....	141.6	17.4	9.0	8.4	12.3	1,128	144	66	78
Indiana.....	76.9	9.4	4.4	4.9	12.2	609	72	32	40
Illinois.....	125.8	13.3	6.4	6.9	10.6	1,056	117	46	70
Michigan.....	130.1	16.7	10.6	6.1	12.8	944	118	56	62
Wisconsin.....	62.0	5.8	3.1	2.7	9.3	501	54	24	30
West North Central.....	180.8	18.4	11.4	7.0	10.2	1,308	140	76	66
Minnesota.....	42.8	5.3	3.1	2.1	12.4	373	47	23	25
Iowa.....	33.5	3.3	2.1	1.2	9.8	202	20	12	8
Missouri.....	52.7	5.4	3.4	2.0	10.2	415	43	24	20
North Dakota.....	2.6	.3	.2	.1	11.2	14	2	1	11.4
South Dakota.....	3.5	.2	.2	.1	7.0	27	2	1	6.7
Nebraska.....	15.1	1.3	.8	.5	8.7	92	9	5	10.0
Kansas.....	30.6	2.6	1.6	1.0	8.6	185	17	10	7
South Atlantic.....	311.8	33.8	18.8	14.9	11.1	3,011	275	130	146
Delaware.....	9.6	1.1	.7	.4	11.7	69	9	3	12.8
Maryland.....	23.6	2.3	1.1	1.2	9.9	229	24	12	10.7
District of Columbia.....	1.7	.1	(2)	(2)	4.2	15	1	(2)	3.9
Virginia.....	43.9	4.8	2.9	1.9	10.9	408	37	19	18
West Virginia.....	10.8	1.9	.9	1.0	17.2	87	11	5	13.1
North Carolina.....	78.8	8.5	4.8	3.7	10.8	829	69	31	38
South Carolina.....	94.0	4.0	1.9	2.1	11.7	365	34	14	20
Georgia.....	61.6	5.1	2.7	2.4	8.2	542	42	20	22
Florida.....	47.8	6.0	3.8	2.2	12.5	468	48	26	22
East South Central.....	145.6	15.5	8.0	7.5	10.7	1,277	114	54	60
Kentucky.....	37.4	4.1	2.1	2.0	10.9	252	26	12	14
Tennessee.....	49.5	5.0	2.7	2.3	10.1	477	42	21	21
Alabama.....	36.3	4.2	2.0	2.2	11.6	341	31	14	17
Mississippi.....	22.4	2.2	1.2	1.0	10.0	207	15	7	8
West South Central.....	278.3	33.8	17.3	16.5	12.1	1,531	171	89	81
Arkansas.....	22.9	2.4	1.3	1.1	10.5	200	16	7	9
Louisiana.....	55.0	7.0	3.5	3.5	12.7	182	19	9	10.2
Oklahoma.....	24.5	2.3	1.2	1.1	9.3	174	19	11	8
Texas.....	175.9	22.1	11.3	10.8	12.6	975	117	62	55
Mountain.....	65.8	8.3	4.5	3.7	12.7	576	76	42	33
Montana.....	3.8	.3	.1	.3	8.4	22	1	(2)	6.3
Idaho.....	6.2	.7	.4	.2	10.7	50	5	3	9.7
Wyoming.....	2.4	.2	(2)	.1	6.3	9	1	(2)	5.9
Colorado.....	21.3	2.6	1.9	.9	13.1	191	27	17	10
New Mexico.....	3.9	.3	.1	.2	8.4	31	3	2	9.9
Arizona.....	15.9	2.5	1.2	1.3	15.6	161	26	13	13
Utah.....	10.3	1.3	.7	.6	12.6	93	11	6	12.1
Nevada.....	1.8	.2	.1	.1	10.3	19	2	1	10.5
Pacific.....	288.9	41.1	26.5	14.7	14.3	2,536	347	202	144
Washington.....	38.6	8.6	6.9	1.7	22.4	277	48	36	12
Oregon.....	21.0	2.7	1.6	1.1	12.9	191	25	15	10
California.....	221.5	28.8	17.1	11.7	13.0	2,036	271	149	122
Alaska.....	2.4	.6	.6	.2	27.2	9	2	(2)	26.7
Hawaii.....	3.4	.4	.3	.1	12.1	23	1	(2)	3.1

Z Less than \$50 million or fewer than 500.

Source: U.S. Bureau of the Census, Annual Survey of Manufactures, Origin of Exports of Manufactured Products M84(AS)-5.

Manufactures

No. 1282. IMPORTS FOR CONSUMPTION OF MANUFACTURED PRODUCTS: 1970 TO 1987

[Import data for 1974-81 are valued on a f.a.s. basis. Data for 1970-73 and 1982-86 are valued on a customs basis. Data for all years have been adjusted to include comparable commodities in each group. Minus sign (-) indicates decrease.]

SIC ¹ code	PRODUCT	1987		GROWTH RATE ² (percent)			IMPORT PENETRATION RATIO ³ (percent)			
		Value (mil. dol.)	Per- cent distribu- tion	1970- 1987	1980- 1987	1986- 1987	1972	1977	1982	1987
(X)	Manufacturing	340,089	100.0	15.0	12.6	10.0	6.1	7.0	8.5	12.9
(X)	Nondurables	94,298	27.7	13.0	9.0	11.6	4.7	5.4	5.8	8.0
20	Food and kindred products	13,180	3.9	8.0	3.4	5.3	3.9	3.8	3.6	4.2
21	Tobacco manufactures	90	-	10.5	-4	10.2	6	7	1.8	.5
22	Textile mill products	4,780	1.4	9.3	13.0	13.1	5.6	4.2	5.4	8.4
23	Apparel and other mill products	21,503	6.3	18.0	18.6	18.3	7.0	10.3	14.3	24.5
26	Paper and allied products	9,715	2.9	11.3	8.7	18.0	5.6	6.3	6.1	7.3
27	Printing and publishing	1,328	.4	13.7	14.6	7.5	1.0	.9	.9	1.4
28	Chemicals and allied products	14,318	4.2	15.3	10.8	8.5	3.2	3.9	4.5	6.7
29	Petroleum and coal products	13,123	3.9	13.3	-3	2.2	7.1	8.5	7.3	9.8
30	Rubber and plastics products	6,831	1.9	14.2	12.7	17.7	4.7	5.4	5.1	6.8
31	Leather and leather products	9,930	2.9	16.9	16.6	14.8	15.9	21.2	33.9	54.8
(X)	Durables	245,791	72.3	16.0	14.3	9.4	7.2	8.3	11.2	16.8
24	Lumber and wood products	5,959	1.8	11.2	7.3	10.9	9.4	9.3	8.2	10.2
25	Furniture and fixtures	4,575	1.3	19.6	22.9	14.5	2.6	3.6	5.3	10.6
32	Stone, clay, and glass products	5,560	1.6	14.7	13.7	13.2	3.7	4.0	5.3	8.3
33	Primary metal industries	19,108	5.6	9.9	2.9	4.2	8.9	10.0	14.7	16.8
34	Fabricated metal products	9,617	2.8	14.4	11.8	12.7	2.5	3.2	4.3	6.0
35	Machinery, except electrical	42,319	12.4	18.7	18.1	18.4	5.4	6.3	8.4	16.8
36	Electrical and electronic equipment	45,782	13.5	18.2	16.7	8.5	7.6	10.4	12.4	18.5
37	Transportation equipment	86,658	25.5	16.6	16.0	5.6	9.8	10.2	15.4	20.9
38	Instruments and related products	11,547	3.4	17.5	13.7	8.5	6.7	9.2	10.1	16.0
39	Miscellaneous manufacturing industries	14,866	4.3	15.9	15.2	14.8	13.3	17.2	24.0	37.5

¹ Represents zero. X Not applicable. ² Standard Industrial Classification, compound annual growth rates. ³ Ratio of imports to new supply (product shipments plus imports).

2 1970-87 and 1980-87 rates are com-

1970 TO 1987

[See headnote table 1282. N.e.c.=Not elsewhere classified]

1977 SIC ¹ code	PRODUCT GROUP	1987		GROWTH RATE ² (percent)			IMPORT PENETRATION RATIO ³ (percent)			
		Value (mil. dol.)	Per- cent distribu- tion	1970- 1987	1980- 1987	1986- 1987	1972	1977	1982	1987
314	Footwear, except rubber	6,862	2.0	17.6	17.4	11.1	17.1	24.0	38.2	62.4
365	Radio and TV receiving equipment	11,763	3.5	14.1	16.3	-7.2	31.9	37.4	43.1	59.2
387	Watches, clocks, and watchcases	1,613	.5	14.0	6.4	11.2	21.1	34.0	45.9	58.1
375	Motorcycles, bicycles, and parts	1,343	.4	7.6	-1.9	-10.8	65.1	51.2	53.8	57.5
317	Handbags and personal leather goods	1,128	.3	15.8	13.0	22.3	18.1	26.9	37.4	56.5
391	Jewelry, silverware, and plated ware	5,832	1.7	18.7	14.1	3.1	22.0	31.1	41.9	56.3
237	Fur goods	515	.2	28.8	28.4	17.1	3.7	8.6	25.0	55.6
316	Luggage	870	.3	22.1	19.4	23.7	15.4	19.7	34.8	55.4
313	Boot, shoe cut stock and findings	251	.1	28.5	17.6	14.4	2.2	10.5	24.7	48.8
393	Musical instruments	790	.2	16.0	24.6	35.3	15.0	14.2	21.5	46.0
394	Toys and sporting goods	5,749	1.7	17.3	17.4	27.1	13.0	17.3	25.6	41.8
326	Pottery and related products	1,492	.4	14.3	10.8	17.4	21.3	27.0	30.9	41.3
236	Children's outerwear	6,425	1.8	17.3	20.9	14.7	16.3	18.6	20.2	40.5
238	Miscellaneous apparel and accessories	1,453	.4	14.7	15.6	36.1	16.1	27.7	25.0	36.1
315	Leather gloves and mittens	90	.1	5.6	7.0	10.7	22.3	24.3	27.2	36.5
385	Ophthalmic goods	830	.2	18.3	16.9	13.8	12.4	19.7	24.0	36.4
302	Rubber and plastics footwear	348	.1	3.9	-4.5	27.9	33.9	61.3	33.6	35.8
328	Cut stone and stone products	430	.1	17.7	26.2	15.4	10.6	8.2	23.6	35.6
333	Primary nonferrous metals	6,647	2.0	9.1	-1.1	1.8	17.7	20.3	23.6	33.7
319	Leather goods, n.e.c.	168	-	14.1	15.0	18.7	15.1	13.6	16.1	31.9
361	Engineering and scientific instruments	245	.1	17.1	13.0	16.3	12.5	16.2	32.4	30.6
355	Special industry machinery	4,659	1.3	14.1	14.1	13.9	14.7	13.6	18.4	29.6
261	Pulpmills	2,069	.6	8.9	2.5	29.2	30.4	33.1	29.1	27.7
371	Motor vehicles and equipment	78,113	23.0	16.9	17.1	6.3	11.6	12.4	20.6	26.4
233	Women's and misses' outerwear	4,573	1.3	19.3	20.1	13.0	4.9	8.0	14.4	26.2
396	Costume jewelry and notions	985	.3	14.2	10.4	16.7	13.8	17.5	17.7	25.9
235	Hats, caps, and military	210	.1	14.2	9.5	8.9	11.0	12.6	18.8	24.8
232	Men's and boys' furnishings	5,176	1.5	19.3	16.0	26.8	7.2	11.1	16.3	24.0

¹ Represents zero. X Not applicable. ² Standard Industrial Classification, compound annual growth rates. ³ Ratio of imports to new supply (product shipments plus imports).

2 1970-87 and 1980-87 rates are compound annual growth rates.

3 Ratio of imports to new supply (product shipments plus imports).

Source of tables 1282 and 1283: U.S. International Trade Administration, *Industrial Outlook*, annual.

Domestic Exports

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NO. 1284. DOMESTIC EXPORTS OF MANUFACTURED PRODUCTS: 1970 TO 1987

[Data are valued on a f.a.s. basis. Data for all years have been adjusted to include comparable commodities in each group. Minus sign (-) indicates decrease]

SIC ¹ code	PRODUCT	1987		GROWTH RATE ² (percent)			RATIO OF EXPORTS TO PRODUCT SHIPMENTS (percent)			
		Value (mil. dol.)	Per- cent dis- tribution	1970- 1987	1980- 1987	1986- 1987	1972	1977	1982	1987
(x)	Manufacturing	198,355	100.0	10.9	2.5	15.3	5.6	7.4	9.1	8.2
(x)	Nondurables	30.3	11.3	2.5	16.6	3.5	4.5	5.4	5.2	5.2
20	Food and kindred products	60,148	6.2	9.8	-2.2	9.5	2.9	4.1	4.3	3.9
21	Tobacco manufactures	12,320	1.1	15.7	11.2	53.9	5.7	9.4	10.3	9.1
22	Textile mill products	2,273	1.0	8.9	-3.8	14.4	2.9	4.3	4.9	3.9
23	Apparel and other mill products	1,891	.8	11.8	-1.0	26.5	1.2	2.2	2.4	2.1
26	Paper and allied products	1,490	.8	10.1	2.8	26.7	4.1	4.9	5.5	4.7
27	Printing and publishing	5,676	2.9	10.1	2.8	17.5	1.3	1.5	1.7	1.2
28	Chemicals and allied products	1,525	.8	8.4	4.6	26.1	3.1	4.0	4.8	4.1
29	Petroleum and coal products	26,090	13.2	11.8	2.7	15.6	7.6	9.7	12.5	11.9
30	Rubber and plastics products	4,479	2.3	13.3	6.7	5.9	1.9	1.4	3.2	3.6
31	Leather and leather products	3,710	1.9	12.6	4.8	26.1	3.1	4.0	4.8	4.1
		688	.3	15.0	4.4	32.2	1.8	3.8	5.7	7.3
(x)	Durables	138,207	69.7	10.7	2.5	14.8	7.4	10.0	13.0	10.8
24	Lumber and wood products	3,981	2.0	10.8	1.0	31.2	4.1	5.8	7.2	5.5
25	Furniture and fixtures	550	.3	15.5	2.8	18.1	.6	1.5	2.5	1.5
32	Stone, clay, and glass products	2,045	1.0	9.3	-.9	18.7	2.4	3.4	4.3	3.2
33	Primary metal industries	4,772	2.4	4.5	-8.3	82.7	2.8	3.0	5.0	3.6
34	Fabricated metal products	6,185	3.1	8.1	-1.3	11.6	3.9	5.6	6.6	4.5
35	Machinery, except electrical	41,054	20.7	10.2	1.1	12.9	14.9	19.5	23.3	20.1
36	Electrical and electronic equipment	24,359	12.3	13.7	5.8	19.3	6.7	10.8	12.7	10.8
37	Transportation equipment	42,371	21.4	11.5	5.4	11.6	9.2	11.8	15.6	12.5
38	Instruments and related products	10,191	5.1	11.7	4.1	10.3	12.6	18.8	17.4	16.5
39	Miscellaneous manufacturing industries	2,719	1.4	10.4	-.9	30.7	7.6	9.4	9.5	9.3

X Not applicable. 1 Standard Industrial Classification. 2 See footnote 2, table 1282.

NO. 1285. DOMESTIC EXPORTS FOR 28 LEADING 3-DIGIT SIC PRODUCT GROUPS: 1970 TO 1987

[See headnote, table 1284. N.e.c.=Not elsewhere classified]

1977 SIC ¹ code	PRODUCT GROUP	1987		GROWTH RATE ² (percent)			EXPORT/SHIPMENTS RATIO (percent)			
		Value (mil. dol.)	Per- cent dis- tribution	1970- 1987	1980- 1987	1986- 1987	1972	1977	1982	1987
299	Petroleum and coal products	358	.2	11.3	-4.9	-5.6	47.0	48.5	59.3	55.5
261	Pulp mills	2,345	1.2	9.8	4.3	35.0	33.4	37.5	40.9	41.5
357	Office and computing machines	18,342	9.2	15.5	11.8	21.1	20.9	23.8	24.6	28.2
353	Construction and related machinery	5,796	2.9	5.8	-8.0	-7.7	24.0	28.5	38.8	28.6
372	Aircraft and parts	20,618	10.4	11.9	5.2	13.3	24.9	29.1	29.9	25.5
374	Railroad equipment	331	.2	8.5	-3.9	-36.4	8.0	7.3	14.7	24.7
355	Special industry machinery	2,224	1.2	7.5	2	21.5	19.5	24.8	27.7	22.6
382	Measuring and controlling devices	4,074	2.1	11.2	4.4	10.7	19.4	24.0	24.8	22.4
311	Leather tanning and finishing	391	.2	14.9	5.4	24.9	7.1	11.8	19.0	21.5
383	Optical instruments and lenses	1,121	.6	18.3	7.2	7.3	12.0	10.3	18.8	21.3
287	Agricultural chemicals	3,020	1.5	14.9	-2.6	15.2	8.8	12.1	21.0	21.2
281	Industrials inorganic chemicals	3,809	1.8	11.2	3.2	4.5	12.4	14.7	19.7	20.9
369	Miscellaneous electrical equipment	4,097	2.1	17.6	6.9	21.6	6.5	13.5	21.7	20.3
359	Machinery, except electrical	1,516	.8	26.3	9.7	21.1	1.5	2.2	16.3	20.3
351	Engines and turbines	2,960	1.5	9.8	-2.7	9.3	13.8	20.7	28.3	19.8
367	Electronic components and accessories	10,082	5.1	15.4	8.0	23.4	11.6	17.8	19.8	19.0
286	Industrial organic chemicals	8,195	4.1	12.3	3.6	18.8	11.2	11.6	17.0	19.0
241	Logging camps, log contractors	1,653	.8	9.2	5	33.3	20.4	20.4	19.1	18.2
391	Jewelry, silverware, and plated ware	1,021	.5	1.3	2	29.1	14.2	15.3	12.9	18.1
212	Chewing and smoking tobacco	223	.1	12.6	45.1	26.3	13.7	4.2	5.8	17.5
383	Musical instruments	171	.1	11.5	-3.3	49.2	8.2	14.6	16.7	18.7
381	Engineering and scientific instruments	715	.4	9.3	7.8	13.1	11.2	12.1	16.9	15.5
356	General industrial machinery	4,869	2.4	8.1	-.8	7.8	15.0	19.8	18.4	15.4
386	Photographic equipment and supplies	2,333	1.2	10.3	-.4	4.5	11.8	15.6	15.9	15.3
207	Fats and oils	2,240	1.1	5.6	-7.1	-1.5	15.0	17.2	18.6	15.2
348	Ordnance and accessories, n.e.c.	641	.3	5.7	8.2	-13.3	11.4	25.1	17.9	14.8
306	Fabricated rubber products, n.e.c.	96	-	19.6	17.3	12.3	2.4	3.6	8.1	12.7
352	Farm and garden machinery	1,343	.7	7.9	-6.3	11.8	9.6	14.4	15.3	12.5

- Represents zero. 1 Standard Industrial Classification. 2 See footnote 2, table 1282.

Source of tables 1284 and 1285: U.S. International Trade Administration, *Industrial Outlook*, annual.

Manufactures

No. 1286. BEVERAGE INDUSTRY—SUMMARY: 1970 TO 1986

YEAR AND ITEM	Unit	Total	Malt beverages	Malt	Wine, brandy, spirit	Distilled liquor, exc., brandy	Soft drinks (bottled, canned)	Flavoring, extracts, syrups
1970: Employees	1,000.....	228	57	2	9	21	129	11
Payroll	Mill. dol.	1,684	616	19	71	171	916	91
Value added by manufacture	Mill. dol.	6,144	2,028	58	258	887	2,121	792
Value of shipments	Mill. dol.	12,373	3,822	210	591	1,758	4,631	1,361
1980: Employees	1,000.....	199	43	2	11	14	118	11
Payroll	Mill. dol.	3,646	1,122	40	191	253	1,850	191
Value added by manufacture	Mill. dol.	13,708	3,639	162	811	1,849	5,348	1,898
Value of shipments	Mill. dol.	33,041	9,362	680	2,189	3,889	13,909	3,513
1984: Employees	1,000.....	186	39	2	12	11	110	11
Payroll	Mill. dol.	4,450	1,314	45	274	268	2,283	277
Value added by manufacture	Mill. dol.	18,288	5,394	162	1,081	1,685	7,142	2,825
Value of shipments	Mill. dol.	41,181	11,868	587	2,695	3,405	18,052	4,574
1985: Employees	1,000.....	183	40	2	13	10	106	12
Payroll	Mill. dol.	4,624	1,558	44	297	268	2,345	314
Value added by manufacture	Mill. dol.	19,293	5,681	162	1,063	1,691	7,587	3,108
Value of shipments	Mill. dol.	43,243	12,216	571	2,763	3,495	19,358	4,840
1986: Employees	1,000.....	172	34	2	13	10	102	11
Payroll	Mill. dol.	4,549	1,255	41	318	261	2,348	325
Value added by manufacture	Mill. dol.	20,952	6,185	163	1,234	1,845	6,215	3,310
Value of shipments	Mill. dol.	45,587	12,678	539	3,163	3,504	20,687	5,017

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures and Census of Manufactures, 1982*.

No. 1287. ALCOHOLIC BEVERAGES—SUMMARY: 1970 TO 1987

[For fiscal years ending in year shown, see text, section 9. Includes Puerto Rico. Excludes imports. See *Historical Statistics, Colonial Times to 1970*, series P 235 for beer production, and P 236a for distilled spirits]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Brewerries:											
Breweries operated	Number	154	117	86	92	82	92	96	103	103	120
Production	Mill. bbl.	135	155	193	195	194	196	193	194	194	196
Imports (incl. ale, etc.) ²	Mill. bbl.	(NA)	1.7	4.6	5.2	5.8	6.3	7.2	7.9	8.8	9.4
Value of shipments (SIC 2082) ³	Mill. dol.	3,822	5,641	9,362	10,179	11,183	11,798	11,868	12,216	12,678	(NA)
Tax-paid withdrawals	Mill. bbl.	123	147	172	177	176	178	176	175	177	178
Stocks on hand, June 30	Mill. bbl.	15	14	15	14	14	15	14	14	14	14
Per capita consumption ⁴	Gallons	28.6	32.8	34.9	35.6	33.4	33.0	32.8	(NA)	(NA)	(NA)
Of domestic output	Gallons	28.4	32.4	34.0	34.5	32.0	31.7	31.5	(NA)	(NA)	(NA)
Distilled spirits:											
Production facilities operated	Number	140	115	143	114	121	121	112	117	117	102
Warehouses operated	Number	274	241	200	198	202	193	202	214	216	211
Production, total ⁵	Mill. tax gal. ⁶	355	278	236	259	217	181	134	117	102	90
Whisky	Mill. tax gal. ⁶	160	50	67	90	98	80	77	65	54	45
Imports ²	Mill. tax gal. ⁶	80.9	113.5	90.7	117.9	106.0	116.4	117.7	115.8	107.6	102.5
Tax-paid withdrawals, total ⁷	Mill. tax gal. ⁶	256	285	330	321	312	306	301	306	285	271
Whisky	Mill. tax gal. ⁶	112	137	42	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Stocks on hand, June 30, total ⁸	Mill. tax gal. ⁶	1,091	836	696	691	654	640	636	588	546	508
Whisky	Mill. tax gal. ⁶	960	780	566	544	540	523	490	467	445	409
Bottled for consumption, total	Mill. wine gal. ⁹	312	357	392	388	375	377	368	371	328	337
Whisky	Mill. wine gal. ⁹	192	182	165	162	153	154	142	138	121	119
Per capita ⁴	Wine gal. ⁹	2.61	2.49	2.90	2.84	2.62	2.71	2.83	(NA)	(NA)	(NA)
Of domestic output	Wine gal. ⁹	1.91	1.75	2.00	2.02	1.80	1.79	1.80	(NA)	(NA)	(NA)
Still wines:											
Production ¹⁰	Mill. wine gal. ⁹	713	782	982	901	546	813	684	622	667	677
Imports ²	Mill. wine gal. ⁹	22.1	40.3	90.7	101.1	107.5	58.6	58.8	57.9	60.3	52.9
Tax-paid withdrawals ¹⁰	Mill. wine gal. ⁹	204	287	340	363	365	367	376	414	441	451
Stocks on hand, June 30 ¹¹	Mill. wine gal. ⁹	207	325	486	602	519	596	577	602	601	618
Per capita ⁴	Wine gal. ⁹	1.70	2.20	2.65	2.68	2.81	2.82	2.83	(NA)	(NA)	(NA)
Of domestic output	Wine gal. ⁹	1.52	1.96	2.02	2.02	2.14	2.10	2.08	(NA)	(NA)	(NA)
Effervescent wines: ¹²											
Production	Mill. wine gal. ⁹	20.0	18.0	26.8	31.2	30.6	36.6	34.6	32.0	32.1	29.2
Imports ²	Mill. wine gal. ⁹	2.0	2.1	5.2	7.9	8.7	11.4	15.7	16.0	14.7	14.1
Tax-paid withdrawals	Mill. wine gal. ⁹	17.1	17.6	24.1	27.0	26.5	31.7	31.9	30.9	31.4	31.2
Stocks on hand, June 30	Mill. wine gal. ⁹	8.1	9.0	11.9	14.4	17.6	21.5	20.5	21.3	19.3	18.7
Per capita ⁴	Wine gal. ⁹ ....	.15	.13	.17	.19	.22	.22	.21	(NA)	(NA)	(NA)
Of domestic output	Wine gal. ⁹ ....	.13	.12	.12	.14	.17	.17	.17	(NA)	(NA)	(NA)

NA Not available. ¹ Barrels of 31 wine gallons (see footnote 7). ² Source: U.S. Bureau of the Census, *Imports for Consumption, General Imports*, FT 246. ³ Source: U.S. Bureau of the Census, *Census of Manufactures, 1977 and 1982*, and *Annual Survey of Manufactures*. ⁴ Source: U.S. Dept. of Commerce, International Trade Administration. Based on U.S. Bureau of the Census estimated population 18 years old and over, as of July 1, including Armed Forces abroad. ⁵ Excludes alcohol produced for industrial use. ⁶ A tax gallon for spirits of 100 proof or over is equivalent to the proof gallon; for spirits of less than 100 proof to the wine gallon. (See footnote 8.) A proof gallon is the alcoholic equivalent of a U.S. gallon at 60°F, containing 50 percent of ethyl alcohol by volume. ⁷ Includes ethyl alcohol. ⁸ A wine gallon is the U.S. gallon equivalent to the volume of 231 cubic inches. ⁹ Production represents total amount removed from fermenters, including distilling material, and includes increase after fermentation (by amelioration, sweetening, and addition of wine spirit). In 1975, 359 million gallons of distilling materials were produced; 1980, 184 mil. gal.; 1981, 264 mil. gal.; 1982, 138 mil. gal.; 1983, 223 mil. gal.; 1984, 169 mil. gal.; 1985, 148 mil. gal.; 1986, 149 mil. gal.; 1987, 155 mil. gal. ¹⁰ Includes special natural wines. ¹¹ Excludes distilling materials. ¹² Includes champagne, other effervescent wines, and artificially carbonated wines.

Source: Except as noted, U.S. Bureau of Alcohol, Tobacco, and Firearms, *Alcohol and Tobacco Summary Statistics*, annual.

Food Industry—Tobacco Industry—Natural Fibers

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No. 1288. FOOD MANUFACTURING INDUSTRY—SUMMARY: 1970 TO 1987

[Covers manufacturers of food and kindred products (Standard Industrial Classification Code 20); based on various editions of the Standard Industrial Classification Manual, see text, section 13]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Total employees ¹	1,000.....	1,786	1,658	1,708	1,671	1,636	1,615	1,612	1,603	1,609	1,624
Production workers	1,000.....	1,207	1,120	1,175	1,150	1,128	1,114	1,120	1,118	1,131	1,149
Avg. hourly earnings, prod. workers	Dollars.....	3.16	4.61	6.85	7.44	7.92	8.19	8.39	8.57	8.75	8.94
Salaries and wages	Bil. dol.....	11.7	15.8	23.2	24.7	26.1	26.6	27.4	28.1	28.6	28.6
Value added by manufacture ²	Bil. dol.....	32.3	48.1	75.5	80.8	88.4	93.4	98.0	104.1	112.2	(NA)
Value of shipments ³	Bil. dol.....	98.5	172.2	256.2	272.1	280.5	287.1	300.0	301.6	308.5	(NA)
Total assets	Bil. dol.....	23.8	33.0	48.6	48.8	58.6	61.5	64.6	69.6	(NA)	(NA)
Capital expenditures, new ⁴	Bil. dol.....	2.1	3.4	5.8	6.0	6.7	5.8	6.4	7.0	7.0	(NA)
Corporate profits before taxes ⁵	Bil. dol.....	4.8	8.8	13.0	14.3	13.3	14.8	15.5	20.9	21.1	24.0
Corporate profits after taxes ⁶	Bil. dol.....	2.6	5.2	8.2	9.1	8.4	9.4	9.8	12.8	13.3	15.6
Ratio of profits to stockholders' equity ⁶	Percent.....	10.8	14.4	14.7	14.0	13.0	12.2	13.3	15.3	16.2	17.4
Profits per dollar of sales ⁶	Cents.....	2.5	3.2	3.4	3.2	3.1	3.3	3.3	4.1	4.2	4.6

NA Not available. ¹ Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly. ² See footnote 7, table 1264. ³ See footnote 8, table 1264. ⁴ Includes expenditures for plants in operation and plants under construction but not yet in operation. ⁵ Source: Through 1981, U.S. Federal Trade Commission, thereafter U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. Data are not necessarily comparable from year to year due to changes in accounting procedures, industry classifications, sampling procedures, etc.; for detail, see source. ⁶ Return on equity and after tax profit rates are averages of quarterly figures at annual rates.

Source: Except as noted, U.S. Bureau of the Census, *1982 Census of Manufactures*, and *Annual Survey of Manufactures*.

No. 1289. TOBACCO MANUFACTURES INDUSTRY—SUMMARY: 1972 TO 1986

[In millions of dollars, except as indicated. Represents Standard Industrial Classification Code 21. Includes cigarettes, cigars, chewing and smoking tobacco, and tobacco stemming and redrying]

ITEM	1972 Census	1977 Census	1980 ASM	1981 ASM	1982 Census	1983 ASM	1984 ASM	1985 ASM	1986 ASM
All employees:									
Number (1,000)	66.3	60.6	58.0	61.1	57.9	54.8	51.7	49.2	46.1
Payroll	502	751	1,045	1,219	1,324	1,356	1,354	1,369	1,350
Value added by manufacture	2,637	4,334	6,148	6,430	8,865	9,642	10,787	11,894	12,725
Cost of materials	3,281	4,730	6,091	6,691	7,099	6,541	6,683	6,626	6,341
Value of shipments	5,920	9,051	12,195	13,130	16,061	16,252	17,440	18,507	19,073
New capital expenditures	133	182	367	725	697	649	670	669	659

Source: U.S. Bureau of the Census, *Census of Manufactures*, 1972, 1977, and 1982; and *Annual Survey of Manufactures*.

No. 1290. TOBACCO PRODUCTS—PRODUCTION AND CONSUMPTION: 1970 TO 1987

[Production data are for years ending June 30. Excludes cigars produced in customs bonded manufacturing warehouses. See also *Historical Statistics, Colonial Times to 1970*, series P 239-241]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Production:													
Cigarettes ¹	Billions	562	627	688	707	702	744	711	668	657	665	662	678
Cigars ¹	Billions	8.0	8.3	5.6	5.1	4.9	5.0	4.5	4.3	4.5	4.2	3.8	3.5
Tobacco ²	Mil. lb.....	164	155	156	156	163	162	160	159	159	155	144	138
Per capita consumption: ³													
All products	Lb. ⁴	9.6	9.1	8.1	8.3	8.0	7.6	7.5	7.2	6.9	6.8	6.7	6.4
Cigarettes	1,000.....	4.0	4.1	4.0	3.9	3.8	3.8	3.7	3.5	3.5	3.4	3.3	3.2
Cigars ⁵	Number	60	39	30	27	25	23	22	22	20	18	17	15
Tobacco ⁶	Lb. ⁴ .....	.83	.72	.68	.69	.69	.64	.65	.64	.63	.61	.76	.67

¹ Large and small. Source: U.S. Bureau of Alcohol, Tobacco, and Firearms. ² Smoking and chewing tobaccos and snuff. Source: U.S. Dept. of Agriculture, Agricultural Marketing Service, *Manufacture and Sales of Snuff, Smoking, and Chewing Tobacco*, quarterly. ³ Based on U.S. Bureau of the Census estimated population 18 years old and over, as of July 1, including Armed Forces abroad. ⁴ Unstemmed processing weight equivalent. ⁵ Weighing over 3 pounds per 1,000.

Source: Except as noted, U.S. Dept. of Agriculture, Economic Research Service, *Tobacco Situation*, quarterly.

No. 1291. MILL CONSUMPTION OF NATURAL FIBERS: 1970 TO 1987

[In million of pounds. See *Historical Statistics, Colonial Times to 1970*, series P 229 and P 230, for wool and silk]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987, pres.
Cotton, total ¹	3,854	3,027	3,170	3,041	3,077	3,036	2,715	2,488	2,808	2,716	2,813	3,256	3,784
Wool, total ²	240	110	108	115	117	123	139	116	141	142	117	137	143
Flax, total	6	3	3	4	5	2	4	8	5	6	4	4	3
Silk, total	2	1	2	2	2	1	2	2	2	1	1	1	1

¹ Reported by U.S. Bureau of the Census. For American cotton, tare as reported by Crop Reporting Board is deducted. For foreign cotton, 20 pounds deducted. ² Reported by U.S. Bureau of the Census. Excludes consumption in cotton and other spinning systems and consumption in batting and felt manufacture.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Cotton and Wool Outlook and Situation*, April 1987.

Manufactures

NO. 1292. COTTON, WOOL, AND MANMADE FIBERS—QUANTITY AND DISTRIBUTION IN SELECTED CONSUMER PRODUCTS: 1980 TO 1986

[Represents products manufactured by U.S. mills. Excludes textile glass]

END-USE AND YEAR	Total (mil. lb.)	COTTON		WOOL		MAN-MADE FIBERS					
		Total (mil. lb.)	Per- cent end- use	Total (mil. lb.)	Per- cent end- use	Total (mil. lb.)	Per- cent end- use	Cellulosic 1		Non-cellulosic 2	
								Total (mil. lb.)	Per- cent end- use	Total (lb.)	Per- cent end- use
Total:											
1980.....	11,205	3,125	27.9	187	1.5	7,913	70.6	748	6.7	7,165	63.9
1981.....	10,812	2,910	26.9	195	1.8	7,707	71.3	725	6.7	6,982	64.6
1982.....	9,643	2,724	28.2	170	1.8	6,749	70.0	532	5.5	6,217	64.5
1983.....	11,220	2,933	26.1	204	1.8	8,063	72.1	576	5.2	7,507	66.9
1984.....	11,298	3,056	27.1	231	2.0	8,011	70.9	577	5.1	7,434	65.8
1985.....	11,532	3,182	27.6	194	1.7	8,156	70.7	542	4.7	7,614	66.0
1986.....	12,640	3,651	29.0	216	1.7	8,763	69.3	606	4.8	8,157	64.5
Apparel:											
1980.....	4,696	1,652	35.2	125	2.7	2,919	62.1	297	6.3	2,622	55.8
1981.....	4,431	1,595	36.0	149	3.4	2,687	60.6	311	7.0	2,376	53.6
1982.....	4,027	1,557	38.6	127	3.2	2,343	58.2	213	5.3	2,130	52.9
1983.....	4,565	1,646	36.1	153	3.4	2,765	60.6	228	5.0	2,538	55.5
1984.....	4,389	1,718	39.1	171	3.9	2,500	57.0	239	5.5	2,261	51.5
1985.....	4,318	1,802	41.7	141	3.8	2,375	55.0	208	4.8	2,167	50.2
1986.....	4,920	2,125	43.2	158	3.2	2,537	53.6	250	5.1	2,387	48.5
Home furnishings:											
1980.....	1,717	787	45.8	15	.9	915	53.3	169	9.9	746	43.4
1981.....	1,672	733	43.8	17	1.0	922	55.2	155	9.3	767	45.8
1982.....	1,425	665	46.7	16	1.1	744	52.2	104	7.9	640	44.9
1983.....	1,730	798	46.1	19	1.1	913	52.8	134	7.7	779	45.1
1984.....	1,837	883	47.0	21	1.1	953	51.9	134	7.3	819	44.6
1985.....	1,864	883	47.9	18	1.0	953	51.1	125	6.7	828	44.4
1986.....	1,919	1,012	52.8	18	.9	689	46.3	131	6.8	758	39.5
Floor coverings:											
1980.....	1,926	15	.8	10	.5	1,901	98.7	-	-	1,901	98.7
1981.....	1,838	12	.7	12	.6	1,814	98.7	1	.1	1,813	98.6
1982.....	1,711	10	.6	11	.6	1,690	98.8	1	.1	1,689	98.7
1983.....	2,207	14	.6	13	.6	2,190	98.8	1	.1	2,179	98.7
1984.....	2,287	14	.6	14	.6	2,259	98.8	1	.1	2,258	98.7
1985.....	2,588	18	.7	12	.5	2,538	98.8	1	-	2,537	98.8
1986.....	2,803	20	.7	16	.6	2,767	98.7	2	.1	2,765	98.6
Exports of domestic products:											
1980.....	617	259	42.0	6	1.0	352	57.0	31	5.0	321	52.0
1981.....	490	186	33.9	5	1.0	319	65.1	28	5.7	291	58.4
1982.....	339	115	33.9	6	1.8	218	64.3	19	5.6	199	58.7
1983.....	284	93	32.7	5	1.8	186	65.5	17	6.0	169	59.5
1984.....	280	85	30.4	4	1.4	191	68.2	16	5.7	175	62.5
1985.....	328	108	32.9	10	3.0	210	64.1	16	4.9	194	59.1
1986.....	384	143	37.3	9	2.3	232	60.4	19	4.9	213	55.5
Industrial: ³											
1980.....	2,249	412	18.3	11	.5	1,826	81.2	251	11.2	1,575	70.0
1981.....	2,381	404	17.0	12	.5	1,985	82.5	230	9.7	1,735	72.8
1982.....	2,141	377	17.6	10	.5	1,754	81.9	195	9.1	1,559	72.8
1983.....	2,434	382	15.7	14	.6	2,038	85.7	195	8.1	1,842	75.6
1984.....	2,505	376	15.0	21	.8	2,108	84.2	187	7.5	1,921	76.7
1985.....	2,454	361	14.7	13	.5	2,080	84.8	192	7.9	1,888	76.9
1986.....	2,614	361	13.8	15	.6	2,238	85.6	204	7.8	2,034	77.8

- Represents zero.

¹ Rayon and acetate.² Nylon, polyester, acrylic, olefin, except as noted.³ Includes consumer-type products.Source: Textile Economics Bureau, Inc., Roseland, NJ, *Textile Organon*, monthly. (Copyright.)

NO. 1293. U.S. EXPORTS AND IMPORTS OF TEXTILES AND APPAREL PRODUCTS: 1980 TO 1987

[In millions of dollars. Excludes glass fibers, linoleum, rubber and leather apparel and clothing donated for charity. Minus sign (-) indicates deficit.]

PRODUCT	1980	1985	1987	PRODUCT	1980	1985	1987
Exports.....	4,458	2,712	3,619	Imports.....	8,139	18,309	24,812
Textile mill products.....	3,457	2,112	2,671	Textile mill products.....	2,372	4,714	6,229
Yarn and thread.....	642	569	526	Yarn and thread.....	168	506	679
Cotton broad woven fabric.....	546	203	292	Cotton broad woven fabric.....	433	837	1,293
Other broad woven and knit fabric.....	809	477	579	Other broad woven and knit fabric.....	784	1,353	1,564
Narrow fabric.....	106	160	174	Narrow fabric.....	43	93	141
Special fabric.....	709	284	570	Special fabric.....	299	361	470
Made-up articles.....	318	222	283	Made-up articles.....	362	1,019	1,385
Textile floor coverings.....	327	197	247	Textile floor coverings.....	293	545	697
Apparel.....	1,001	600	948	Apparel.....	5,767	13,595	18,583
				Trade balance.....	-3,681	-15,597	-21,193

Source: U.S. Bureau of the Census, *U.S. General Imports, Schedule A Commodity by Country*, Report FT135, and *U.S. Exports, Schedule E Commodity by Country*, Report FT410, monthly.

NO. 1294. MALE AND FEMALE CLOTHING—PRODUCTION: 1980 TO 1987

[In millions of units, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series P 242 and 243]

ITEM	1980	1984	1985	1986	1987	ITEM	1980	1984	1985	1986	1987
MALE CLOTHING											
Men's suits	14.6	12.5	10.8	10.6	10.6	FEMALE CLOTHING					
Boys' suits	3.4	2.9	2.5	2.0	2.5	Blouses ⁴ and shirts (mil. doz.)	25.6	22.0	21.3	21.5	19.7
Separate trousers (men's)	125.1	123.0	116.5	113.8	110.1	Dresses	176	162	151	133.4	131.9
Separate coats ²	17.9	22.3	20.6	20.8	18.9	Suits ⁵	17.6	11.3	12.3	10.8	6.5
Woven shirts, men's ³ (mil. doz.)	13.1	11.2	12.7	12.5	11.4	Slacks	159.8	162.0	160.1	133.4	128.0
Casual slacks	89.0	54.7	49.8	42.7	42.6	Jeans	98.2	88.9	90.1	92.7	87.4
Jeans	242.7	202.1	210.5	219.3	206.4	Skirts	98.9	97.5	95.4	98.9	104.7
Work shirts (incl. flannels) (mil. doz.)	3.6	3.6	3.5	3.4	2.5	Coats	17.0	11.9	10.7	11.2	11.2
						Knit outerwear:					
						Sweaters (mil. doz.)	4.1	8.6	7.6	6.3	5.8
						Sport shirts ⁶ (mil. doz.)	10.0	13.5	9.6	7.9	8.1

¹ Includes uniform suits and coats. ² Includes men's and boys' coats. ³ Includes knit and woven dress and woven sport.

⁴ Includes only woven blouses. ⁵ Includes pant suits. ⁶ Includes blouses.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA23A.

NO. 1295. NONRUBBER FOOTWEAR—SUMMARY: 1970 TO 1986

[In millions of pairs, except as indicated. See *Historical Statistics, Colonial Times to 1970*, series P 260-261, for men's and women's shoes]

ITEM	1970 ¹	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986, pri.
Apparent consumption	801.7	727.9	787.7	793.4	734.5	729.8	829.7	911.9	1,020.1	1,096.4	1,168.7
Production, shoes and slippers	562.3	413.1	418.9	388.9	386.3	372.0	359.1	339.2	303.2	285.1	240.9
Percent exported .....	.4	1.1	1.6	2.3	3.3	3.0	2.5	2.2	2.9	5.2	5.2
Value (bil. dol.)	2.9	3.1	3.8	4.3	4.7	4.5	4.8	4.8	4.0	4.0	3.6
Shoes, sandals, playshoes (production) ¹	460.8	339.1	335.6	320.6	323.5	302.2	305.1	281.5	243.8	210.4	185.0
Imports	241.5	319.4	375.7	403.6	361.0	369.0	479.5	580.2	725.8	842.6	940.4
Percent of total consumption	30.1	43.9	47.7	50.9	49.1	50.6	57.8	63.6	71.1	76.9	80.5

¹ Beginning 1980, includes items not shown separately.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series M31A.

NO. 1296. CHEMICALS AND ALLIED PRODUCTS—INDUSTRY SUMMARY: 1972 TO 1986

[In millions of dollars, except as noted]

ITEM	1972	1975	1977	1980	1981	1982	1983	1984	1985	1986
Employment, total (1,000)	837	842	880	910	892	873	851	843	826	802
SALARIES and wages	8,731	11,227	13,839	18,268	19,723	20,836	21,411	22,665	23,345	23,711
Production workers (1,000)	525	510	544	545	533	509	496	491	476	458
Work-hours (million)	1,054	1,001	1,090	1,080	1,087	1,004	981	979	951	928
Value added	32,414	44,976	56,721	74,384	80,032	77,315	86,473	94,728	95,258	100,013
Value of shipments ¹	57,350	89,721	118,154	162,517	180,459	170,737	183,206	198,233	197,311	197,081
Assets, total	38,812	50,565	65,300	82,112	88,769	95,125	102,226	106,331	111,945	(NA)
Rents, total	293	453	513	597	659	644	734	779	767	(NA)
Export value ²	4,183	8,655	10,700	21,589	21,970	20,388	20,099	22,626	21,797	22,582
Import value ²	1,749	3,098	4,414	6,977	7,772	7,572	9,314	11,910	12,708	13,191

NA Not available. ¹ Value of products and services sold by 28 group industries. ² Source: U.S. International Trade Administration, *U.S. Industrial Outlook*, annual.

Source: Except as noted, U.S. Bureau of the Census, *Census of Manufactures*, 1972, 1977, and 1982; and *Annual Survey of Manufactures*.

NO. 1297. RUBBER—NEW SUPPLY, DISTRIBUTION, AND STOCKS: 1970 TO 1987

[In thousands of long tons. Natural rubber refers to dry weights of all types, including liquid latex, guayule, etc. Synthetic comprises SBR (including weight of oil content), neoprene, butyl, butadiene-acrylonitrile, polyisobutylene, chlorosulfonated polyethylene, and polysulfide, silicone, acrylic, stereo, and fluorocarbon rubbers. Reclaimed comprises both natural and synthetic]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
New supply	3,042	2,826	3,772	3,816	3,137	3,147	2,649	2,996	3,308	3,057	(NA)	(NA)
Domestic production ¹	2,398	2,077	2,830	2,889	2,294	2,277	1,861	2,030	2,248	1,993	2,140	2,284
Synthetic	2,197	1,958	2,705	2,764	2,209	2,190	1,788	1,956	2,177	1,932	2,093	2,251
Imports ²	644	749	943	927	843	870	788	966	1,060	1,064	(NA)	(NA)
Natural	550	658	771	769	650	700	640	766	793	779	(NA)	(NA)
Exports ¹	324	250	302	437	494	405	338	304	382	345	390	509
Synthetic	299	226	284	416	472	389	325	289	376	343	387	506
Stocks, end of year ¹	645	528	606	370	279	299	235	220	248	244	285	276

NA Not available. ¹ Includes reclaimed and synthetic. ² Natural, synthetic and reclaimed.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-30A.

NO. 1298. IRON AND STEEL INDUSTRY—SUMMARY: 1975 TO 1987

[The universe for financial data for 1982 represents companies who produced 82 percent of the reported raw steel production. The financial data represents the operations of the steel segment of companies. Minus sign (–) indicates net loss]

ITEM	Unit	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Steel mill products, apparent supply	Mil. tons ¹	89.0	115.0	95.2	105.4	76.4	83.5	98.9	96.4	90.0	95.9
Net shipments	Mil. tons ¹	80.0	100.3	83.9	88.5	61.6	67.6	73.7	73.0	70.3	76.7
Exports	Mil. tons ¹	3.0	2.8	4.1	2.9	1.8	1.2	1.0	1.0	1.0	1.1
Imports	Mil. tons ¹	12.0	17.5	15.5	19.8	16.7	17.1	26.2	24.3	20.7	20.4
Percent of total supply		13.5	15.2	16.3	18.9	21.8	20.5	26.4	25.2	23.0	21.3
Japan	Percent	6.6	5.5	6.3	5.9	6.8	5.1	6.7	6.2	4.9	4.5
EEC ²	Percent	4.6	4.7	4.1	6.1	7.3	4.9	6.4	7.2	7.3	6.0
Canada	Percent	1.1	2.0	2.5	2.7	2.4	2.9	3.2	3.0	3.6	3.8
Scrap consumed	Mil. tons ¹	62.8	77.2	66.8	68.3	43.7	49.0	51.8	53.2	49.7	51.2
Scrap inventory	Mil. tons ¹	7.6	7.4	6.9	7.1	5.5	5.0	4.4	4.0	3.4	3.8
Iron and steel products: Exports	Mil. tons ¹	4.1	3.8	5.1	3.8	2.6	1.8	1.7	1.6	1.5	1.7
Imports	Mil. tons ¹	13.9	20.3	17.9	22.6	18.8	19.3	29.5	27.6	24.2	23.8
Revenue	Bil. dol.		40.8	37.7	43.8	28.7	25.0	30.3	28.4	25.0	26.9
Net Income	Bil. dol.		.8	.7	1.7	3.4	-2.2	(2)	-1.8	-4.1	1.0
Stockholders' equity	Bil. dol.		14.3	14.5	15.4	11.3	8.2	9.4	6.9	2.4	2.9
Total assets	Bil. dol.		29.3	30.8	31.7	27.9	25.5	26.2	24.0	21.0	21.9
Net fixed assets	Bil. dol.		16.8	17.7	18.2	17.8	15.9	16.6	15.7	13.4	13.0
Capital expenditures	Bil. dol.		2.5	2.7	2.4	2.3	1.9	1.2	1.6	.9	1.2
Working capital ratio ³	Ratio		1.7	1.6	1.7	1.5	1.3	1.4	1.3	1.6	1.5
Inventories	Bil. dol.		5.0	4.7	5.4	4.0	3.3	4.2	3.5	3.0	3.2
Average employment	1,000	457	453	399	391	289	243	236	208	175	163
Hours worked	Million	855	894	758	753	526	475	474	419	356	354
Index of output, all employees ⁴		1977 = 100	98	107	103	112	91	116	131	139	142
Capacity by steelmaking process	Mil. net tons	153.1	155.3	153.7	154.3	154.0	150.6	135.3	133.6	127.9	112.2

NA Not available. ² Less than \$50 million. ¹ In millions of short tons. ³ European Economic Community; includes Belgium, Denmark, France, West Germany, Ireland, Italy, Luxembourg, The Netherlands, and the United Kingdom; Spain and Portugal in 1986 and 1987. ⁴ Current assets to current liabilities. ⁵ Index of output per employee hour.

Source: American Iron and Steel Institute, Washington, DC, *Annual Statistical Report*. (Copyright.)

NO. 1299. MILL AND FOUNDRY PRODUCTS—SHIPMENTS: 1970 TO 1987

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Ferrous castings (1,000 sh. tons): ¹										
Gray iron castings ^{2,3}	13,945	13,328	11,799	11,801	8,215	9,247	10,520	8,701	8,620	8,606
Pressure pipe and fittings	1,691	1,380	1,396	1,249	1,100	1,268	1,538	1,535	1,683	1,719
Soil pipe and fittings	953	449	375	410	353	368	393	376	273	378
All other	11,301	11,499	10,028	10,142	6,762	6,049	8,589	6,790	6,564	6,509
Malleable iron castings ²	852	770	450	422	284	291	380	376	320	318
For sale	521	484	206	200	119	98	180	198	154	168
For own use	331	286	244	222	166	193	200	178	186	150
Standard malleable	628	534	312	291	191	191	241	233	185	205
Pearlitic malleable	224	236	138	129	94	100	139	143	125	113
Steel castings ^{2,3}	1,724	2,026	1,878	1,743	1,017	729	940	939	826	830
Carbon	1,147	1,758	1,225	1,102	609	420	581	573	507	492
Alloy	577	268	653	641	408	309	359	366	232	338
Nonferrous castings (1,000 sh. tons): ^{2,3}										
Copper and copper-base alloy	391	315	285	283	222	249	252	235	239	(NA)
Aluminum and aluminum-base alloy	771	728	845	910	803	949	1,116	1,114	1,138	(NA)
Zinc and zinc-base alloy	398	366	243	236	208	245	272	255	248	(NA)
Magnesium and magnesium-base alloy	18	19	13	11	9	13	14	12	20	(NA)
Lead and lead-base alloy die ⁴	28	21	23	19	19	28	25	23	26	(NA)
Copper-based products (mil. lb.)	5,624	4,715	5,820	5,955	4,774	4,827	5,283	4,657	4,588	(NA)
Brass mill products	2,613	2,025	2,467	2,622	2,014	2,116	2,717	2,363	2,318	(NA)
Alloyed	1,542	1,324	1,508	1,695	1,247	1,245	1,661	1,366	1,359	(NA)
Unalloyed	971	701	959	927	767	871	1,056	997	959	(NA)
Copper wire mill products ⁵	2,329	2,056	2,783	2,767	2,316	2,213	2,082	1,824	1,792	1,782
Brass and bronze foundry products	782	631	570	566	444	498	504	470	478	(NA)
Aluminum mill products (mil. lb.) ⁷	7,358	7,427	10,485	10,329	9,116	10,624	11,076	11,092	11,416	12,234
Plate, sheet, and foil	4,247	4,664	6,692	6,829	6,060	7,171	7,195	7,255	7,490	8,245
Extruded shapes and tubing	1,823	1,643	2,329	2,104	1,961	1,980	2,583	2,794	2,944	2,978
Rolled structural shapes, rod, bar, cable ⁸	963	924	1,213	1,150	862	936	995	787	744	783
Powder, flake and paste	205	99	117	108	80	79	99	107	96	92
Forgings and impacts	120	97	134	139	9152	173	9204	149	144	156

NA Not available. ¹ Based on a sample of foundries. ² Includes shipments "for own use." ³ Includes ductile (nodular) iron castings. ⁴ Excludes lead die castings for battery plates and parts. ⁵ Excludes webbing scrap (military ammunition cups and discs). ⁶ Copper content. ⁷ Producers' net shipments consist of total shipments less shipments to other metal mills for further fabrication into other forms of mill products. ⁸ Includes wire. ⁹ Includes welded tubes.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series M33-2, M33A, M33E, and U.S. Bureau of the Census and U.S. International Trade Administration, *Current Industrial Reports*, series ITA-9008, annual.

Steel—Machine Tools—Electronics Shipments

741

NO. 1300. RAW STEEL, PIG IRON AND FERROALLOYS PRODUCTION: 1970 TO 1987

[In millions, except percent. See also *Historical Statistics, Colonial Times to 1970*, series P 265-269]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
RAW STEEL (net tons)												
World production.....	654.2	712.0	790.6	824.5	790.4	779.4	710.7	730.9	782.2	781.6	788.9	812.6
U.S. production.....	131.5	116.8	137.0	136.3	111.8	120.8	74.6	84.6	92.5	88.3	81.6	89.2
Percent of world.....	20.1	16.4	17.3	16.5	14.2	15.5	10.5	11.8	11.8	11.1	10.3	11.0
Basic oxygen process.....	63.3	71.8	83.5	83.3	67.6	73.2	45.3	52.1	52.8	51.9	47.9	51.9
Electric.....	20.2	22.7	32.2	33.9	31.2	34.1	23.2	26.6	31.4	29.9	30.4	28.1
Open hearth.....	48.0	22.2	21.3	19.1	13.0	13.5	6.1	5.9	8.3	6.4	3.3	2(2)
Carbon.....	117.4	100.4	116.8	116.2	94.7	101.5	64.1	73.8	79.9	76.7	71.4	87.5
Alloy and stainless.....	14.1	16.3	20.1	20.1	17.1	19.3	10.5	10.8	12.6	11.6	10.2	12.5
Pig iron and ferroalloys, production (sh. tons) ³	93.5	79.9	87.7	87.0	68.7	73.6	43.3	48.7	51.9	50.4	44.0	48.4

¹ Includes open hearth. ² Included in basic oxygen process. ³ Beginning 1975, includes blast furnace ferroalloys.

NO. 1301. STEEL PRODUCTS—NET SHIPMENTS, BY MARKET CLASSES: 1970 TO 1987

[In thousands of short tons. Comprises carbon, alloy, and stainless steel, "N.e.c." means not elsewhere classified]

MARKET CLASS	1970	1975	1980	1982	1983	1984	1985	1986	1987
Total ¹	90,798	79,957	83,853	61,567	67,583	73,739	73,043	70,263	76,654
Automotive.....	14,475	15,214	12,124	9,288	12,320	12,882	12,850	11,889	11,343
Steel service centers, distributors	16,025	12,700	16,172	13,067	16,710	18,354	18,439	17,478	19,840
Construction, incl. maintenance.....	8,913	8,119	8,742	6,283	7,271	7,522	7,800	7,936	7,681
Containers, packaging, shipping.....	7,775	6,058	5,551	4,470	4,532	4,352	4,089	4,113	4,372
Machinery, industrial equipment, tools.....	5,169	5,173	4,543	2,584	2,484	2,886	2,271	2,076	2,277
Steel for converting and processing.....	3,443	3,255	4,117	3,222	4,403	5,136	5,484	5,835	7,195
Rail transportation.....	3,098	3,152	3,155	1,020	937	1,438	1,061	798	758
Contractors' products.....	4,440	3,927	3,148	2,287	2,703	2,631	3,330	3,278	3,397
Oil and gas industries.....	3,550	4,171	5,371	2,745	1,298	2,003	2,044	1,023	1,489
Electrical equipment.....	2,694	2,173	2,441	2,003	2,337	2,365	1,869	2,113	2,373
Appliances, utensils, and cutlery.....	2,160	1,653	1,725	1,337	1,818	1,835	1,486	1,848	1,633

¹ Includes other classes not shown and nonclassified shipments.

Source of tables 1300 and 1301: American Iron and Steel Institute, Washington, DC, *Annual Statistical Report*. (Copyright.)

NO. 1302. MACHINE TOOL ORDERS AND SHIPMENTS: 1970 TO 1987

[In millions of dollars. These data represent total industry volume based on reports from members of the National Machine Tool Builders' Association. The reporting companies produce about 90 percent of the U.S. machine tool output]

YEAR	METAL CUTTING TYPE TOOLS				METAL FORMING TYPE TOOLS				Order backlog, end of period	
	New orders (net)		Shipments		Order backlog, end of period	New orders (net)		Shipments		
	Total	Domestic	Total	Domestic		Total	Domestic	Total	Domestic	
1970.....	651	507	993	827	471	261	227	450	412	235
1975.....	916	781	1,879	1,548	1,062	361	213	573	495	219
1977.....	2,202	1,981	1,651	1,470	1,794	793	731	630	560	384
1978.....	3,373	3,043	2,189	1,960	2,981	973	897	825	729	518
1979.....	4,495	3,866	2,930	2,606	4,546	1,126	920	947	880	619
1980.....	3,885	3,498	3,681	3,206	4,750	870	665	1,011	879	385
1981.....	2,228	1,946	4,105	3,552	2,873	717	617	991	824	427
1982.....	1,064	890	2,895	2,599	1,043	433	372	710	600	151
1983.....	1,152	1,069	1,372	1,200	823	545	489	474	430	222
1984.....	1,916	1,700	1,607	1,484	1,132	1,000	932	679	609	542
1985.....	1,853	1,652	1,742	1,549	1,243	675	610	803	743	414
1986.....	1,544	1,377	1,890	1,685	897	581	507	688	621	307
1987.....	1,451	1,294	1,677	1,499	672	667	536	847	537	327

Source: National Machine Tool Builders Association, McLean, VA; data published in U.S. Bureau of Economic Analysis, *Business Statistics*, 1979, for 1970-1978; thereafter, *Survey of Current Business*, monthly.

NO. 1303. U.S. FACTORY SALES OF ELECTRONICS SHIPMENTS: 1975 TO 1987

[In millions of dollars]

TYPE OF ELECTRONICS	1975	1980	1981	1982	1983	1984	1985	1986	1987
Total value ¹	42,268	101,087	117,729	128,683	139,704	187,088	204,540	208,836	222,965
Computers and industrial electronics.....	13,457	36,539	47,835	54,855	58,067	60,576	70,065	68,300	73,320
Communications equip. and systems.....	14,302	30,772	35,659	39,130	42,119	49,529	57,095	57,392	60,750
Electronic components.....	9,266	25,571	28,784	29,561	33,856	43,306	39,457	37,113	40,245
Consumer electronics (excl. imports).....	5,224	5,205	5,451	5,137	5,662	6,375	5,457	5,500	5,585

¹ Beginning 1984, includes other products and related services not shown separately.

Source: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual.

No. 1304. ROBOTS, ACCESSORIES, AND COMPONENTS—UNITS SHIPPED AND VALUE: 1985 TO 1987

[Based on a survey of all known manufacturers of robots, robot accessories, and components. Shipment value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. A robot is a reprogrammable multi-functional manipulator designed to move materials, parts, tools, or specialized devices through variable programmed motions for the performance of a variety of tasks. Robots are presently classified in the Standard Industrial Classification (SIC) based on their primary industrial function]

ITEM	UNITS SHIPPED (number)			VALUE OF SHIPMENTS (\$1,000)		
	1985	1986	1987	1985	1986	1987
Robots, robot accessories, and components						
Robots, complete	(X)	(X)	(X)	345,239	345,939	249,912
	5,466	6,673	4,273	275,721	274,556	187,507
Servo-controlled robots	2,978	3,165	2,459	254,926	255,876	175,960
Point-to-point type:						
Welding, soldering, brazing, and/or cutting (welding type)	839	989	476	74,646	86,047	43,944
Foundry, forging, and/or heat treating ¹	65	63	28	4,530	6,885	3,412
Assembly for non-electronic and electronic products	547	443	535	17,781	19,091	19,573
Material handling and/or parts transfer	483	741	713	44,883	45,117	43,016
Continuous-path type:						
Welding, soldering, brazing, and/or cutting	287	198	110	22,352	13,768	9,020
Spraying, painting, gluing, and/or sealing	339	296	297	41,418	36,864	41,348
Fettling, grinding, polishing, and/or deburring ²	438	455	300	49,358	48,104	15,647
Nonservo-controlled robots	460	451	215	18,015	15,681	6,153
Other robots	2,028	3,057	1,589	2,780	2,989	3,394
Robot accessories, subassemblies, etc.	(X)	(X)	(X)	69,518	71,383	62,405
Miscellaneous receipts	(X)	(X)	(X)	9,161	16,833	8,437

X Not applicable. ¹ Combined with inspection, measuring, guaging, and/or sorting, machine tool loading and unloading robots. ² Includes other continuous-path type, not elsewhere classified.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA 35X(87-1).

NO. 1305. SELECTED ELECTRONIC AND ASSOCIATED PRODUCTS—VALUE OF SHIPMENTS, BY CLASS OF PRODUCT: 1980 TO 1986

[In millions of dollars. Based on a survey of all establishments with 20 or more employees for industries 3681, 3662, 3671, 3674-3679, and 3693; includes all known manufacturers of telephone and telegraph apparatus, communications systems and equipment, and electronic equipment. See source for details. N.e.c. means not elsewhere classified]

Product code	PRODUCT DESCRIPTION	1980	1981	1982	1983	1984	1985	1986
(X)	Selected electronic and associated products	60,450	71,373	77,568	83,030	101,897	104,873	102,774
36611	Telephone switching and switchboard equipment	4,254	4,383	4,448	4,651	5,871	7,714	7,114
36612	Other telephone and telegraph (wire) apparatus, equipment, and components	6,893	7,501	6,980	6,792	8,870	8,348	7,248
36621	Communication systems and equipments	5,193	5,722	6,854	7,557	9,259	10,708	10,599
36622	Broadcast, studio, related electronic equipment	1,187	1,446	1,544	1,464	1,476	1,562	1,537
36624	Alarm systems	1,193	761	834	880	1,045	1,114	1,038
36625	Search and detection systems and navigation and guidance system and equipment	12,139	15,040	17,733	19,982	22,823	27,057	29,260
36629	Electronic systems and equipment, n.e.c. ²	2,490	2,900	3,111	3,120	3,361	3,549	3,502
36741	Integrated microcircuits (semiconductor networks)	6,606	6,976	7,322	8,903	13,324	10,910	10,626
36749	Other semiconductor devices	1,393	2,079	2,317	2,411	2,586	2,493	2,064
36750	Capacitors for electronic applications	1,184	1,277	1,209	1,288	1,604	1,327	1,270
36792	Magnetic recording tape ³	1,053	964	959	1,748	1,306	1,474	
36797	Printed circuit boards	8,619	1,664	2,147	2,553	3,585	3,490	3,017
36798	Complex components	2,320	2,502	2,635	3,418	3,310	3,343	
36799	All other electronic components, n.e.c.	4,302	3,973	4,277	5,692	5,022	4,208	
36831	X-ray and other irradiation equipment	800	1,004	1,342	1,544	1,758	1,675	1,606
36833	Electromedical equipment	1,613	1,937	2,419	2,557	2,875	2,720	2,753

X Not applicable. ¹ Excludes broadcast. ² Effective for 1981, product class 36627 has been changed to 36629 to improve comparability with the 1982 Census of Manufactures. ³ Similar products are collected on the *Current Industrial Report* MA35R, Computers and Office and Accounting Machines, and the data were added together to form the complete product classification.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, MA-36A; MA-36D; MA-36Q; and MA-36R.

NO. 1306. COMPUTERS AND OFFICE AND ACCOUNTING MACHINES—VALUE OF SHIPMENTS: 1975 TO 1987

[In millions of dollars. Based on a survey of all known producers of these products except the very small firms (generally less than 10 employees). Includes approximately 740 companies. For details, see source]

Product code	PRODUCT DESCRIPTION	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
35731	Electronic computers	2,123	6,908	8,077	10,786	11,356	12,702	17,063	19,293	20,026	23,262
35732	Peripheral equipment	3,732	8,976	11,730	14,015	14,853	16,749	19,298	18,253	19,898	18,455
35734(pt)	Parts and attachments ¹	1,822	3,782	4,513	4,298	7,008	7,519	9,992	9,128	8,897	8,125
35743	Accounting machines and cash registers	259	836	709	767	901	1,026	1,129	903	879	872
35783	Duplicating machines	103	248	199	193	156	170	188	157	169	202
35795	Mailing, letter-handling, etc.	172	313	361	405	387	508	582	596	769	784

¹ For electronic computers and peripheral equipment, produced by complete machine manufacturers.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA35R(85)-1.

Computer Shipments, Sales, and Use—Telecommunications

743

No. 1307. COMPUTER SHIPMENTS AND REVENUES: 1982 TO 1987

[Revenue is in \$-sold, end-user dollars]

ITEM	Unit	1982	1983	1984	1985	1986	1987
Computer outlays, total ¹	Bil. dol.	21.6	29.8	39.0	42.7	44.8	50.0
Percent change	Percent	34.2	38.0	30.9	9.5	5.0	11.5
Mainframe computers, units shipped ²	1,000	2.1	2.3	2.4	2.4	2.4	2.6
Revenues	Bil. dol.	7.0	8.0	8.8	8.7	8.8	9.6
Super minicomputers, units shipped ³	1,000	4.6	5.2	6.4	7.4	8.2	8.9
Revenues	Bil. dol.	3.0	3.3	3.7	3.9	4.4	4.9
Departmental computers, units shipped ⁴	1,000	64.5	75.6	90.1	106.8	113.7	127.7
Revenues	Bil. dol.	5.7	7.0	8.1	9.1	10.1	9.1
Multiluser microcomputers ⁵	1,000	106.9	146.4	196.7	210.4	218.1	246.3
Revenues	Bil. dol.	2.0	2.8	3.7	4.0	4.0	4.5
Engineering and technical systems shipped ⁶	1,000	.6	3.3	7.5	19.1	35.1	62.0
Revenues	Bil. dol.	.1	.4	.8	1.2	1.5	1.5
Personal computers shipped ⁷	1,000	2,567	6,188	7,740	6,386	7,026	8,668
Revenues	Bil. dol.	3.9	6.6	14.3	16.2	16.3	20.4
Local area network sales	Mil. dol.	62.5	150.0	326.0	593.0	913.0	1,535.0
Number of connections ⁸	1,000	77.9	150.0	340.0	690.0	1,100.0	1,802.0

¹ Represents zero. ² Shipments into the U.S. market from any manufacturing country. ³ Units costing more than \$1.5 million. ⁴ Units costing \$250,000 to \$1.5 million. ⁵ Units costing \$25,000 to \$250,000. ⁶ Units priced below \$25,000.

⁷ Single-user systems for technical and engineering applications, excluding CAD/CAM workstations from turnkey vendors.

⁸ Units costing less than \$10,000. ⁹ Number of new connections of devices, including terminals, computers, and workstations.

Source: Dataquest Inc., San Jose, CA, *Consolidated Data Base*, April 1988.

No. 1308. DOMESTIC PERSONAL COMPUTER SALES AND USE: 1981 TO 1987

[In mil. units, except as indicated]

ITEM	1981	1982	1983	1984	1985	1986	1987
Personal computers (PC's) sold	1.11	3.53	6.90	7.81	6.75	7.04	8.34
Value (mil. dol.)	3,143	5,925	9,779	14,269	17,077	18,888	23,458
Personal computers in use, total ¹	2.12	5.53	12.17	19.18	25.27	31.15	37.75
Workplace	1.24	2.26	4.00	6.44	9.26	12.22	15.82
Business: 1-49 employees	.30	.55	.99	1.71	2.57	3.47	4.65
50-99 employees	.24	.44	.77	1.26	1.82	2.46	3.25
Over 999 employees	.47	.88	1.61	2.65	3.73	4.82	6.14
Government	.24	.40	.62	.82	1.14	1.47	.188
Education	.13	.27	.54	.78	1.15	1.55	1.96
Kindergarten through grade 12	.10	.21	.40	.59	.87	1.17	1.48
College/university	.03	.06	.14	.20	.28	.38	.49
Homes	.75	3.00	7.64	11.95	14.86	17.38	19.97
Personal computer-related equipment in use:							
Impact printers	.72	1.90	4.25	8.70	12.80	17.21	22.49
Nonimpact printers	.02	.10	.31	.68	1.19	1.83	2.76
Plotters	.02	.05	.12	.22	.39	.61	.88
Monochrome monitors	.97	2.24	4.68	7.00	8.74	12.56	15.59
Color monitors	.13	.48	1.29	2.98	5.01	7.73	11.68
Modems	.18	.53	1.41	3.00	4.66	6.65	8.91
Add-in boards ²	2.41	5.68	11.43	19.36	29.62	41.22	55.17
PC hardware maintenance (mil. dol.) ³	76	166	279	568	951	1,061	1,750

¹ Excluding multiuser personal computers. ² Excluding add-in modem boards. ³ Excluding education and home.

Source: Future Computing/Datapro, Inc., Dallas, TX, unpublished data.

No. 1309. TELECOMMUNICATIONS REVENUE: 1981 TO 1987

[In millions of dollars]

ITEM	1981	1982	1983	1984	1985	1986	1987
Total	105,839	118,932	126,770	124,860	135,701	143,344	153,830
Public markets	98,229	110,644	117,696	114,266	124,357	131,381	140,838
Transmission equipment ¹	1,587	1,788	2,188	2,425	2,712	2,991	3,072
Switching equipment ²	333	809	1,288	2,218	3,221	3,973	3,495
Public services ³	98,305	108,047	114,095	109,154	117,822	123,760	131,905
Cellular mobile radio ⁴	—	—	127	469	802	1,238	2,422
On-premises markets	7,610	8,288	9,074	10,595	11,344	11,984	12,992
Terminal equipment ⁵	1,567	1,683	1,857	2,216	2,571	2,676	2,865
Data communications equipment ⁶	904	1,121	1,610	2,194	2,493	2,841	2,913
Local area network connections	28	62	150	326	593	913	1,535
Switching equipment ⁷	6,280	6,657	6,766	7,443	7,298	7,202	7,009
Attached network functions ⁸	131	164	232	291	463	559	783

¹ Represents zero. ² Includes multiplex, carrier, microwave radio, and satellite earth station equipment. ³ Includes central office, CCC, and private packet switching equipment. ⁴ Includes local and long distance telephone services, and public data network services. ⁵ Includes cellular telephone equipment and cellular network services. ⁶ Includes single-line telephone equipment and integrated V/D work-stations, and facsimile equipment. ⁷ Includes data network control systems, and modem, statistical and T-1 multiplexer, front-end processor, and DSU/CSU equipment. ⁸ Includes data PBX systems, key, PBX, and centrex telephone systems, and automatic call distributors. ⁹ Includes call accounting equipment, and voice messaging and video teleconferencing systems.

Source: Dataquest Inc., San Jose, CA, *Consolidated Data Base*, April 1988.

NO. 1310. SEMICONDUCTORS AND RELATED DEVICES: 1980 TO 1987

[In million of dollars, except percent. Semiconductors and related devices represent SIC 3674]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987
SEMICONDUCTORS ¹								
Sales.....	5,053	6,629	6,970	8,092	13,006	9,420	9,968	11,863
Capital expenditures (North America).....	1,438	1,948	1,210	1,452	3,039	2,072	1,580	1,834
Percent of sales.....	22.6	20.7	17.4	16.0	23.4	22.0	15.8	15.5
Japanese capital expenditures as a percent of revenues.....	17.2	15.9	16.5	21.5	43.0	40.0	16.0	15.1
R&D (North America).....	563	777	885	1,092	1,724	1,786	1,970	2,248
SEMICONDUCTOR IMPORTS ²								
Imports, total.....	2,223	3,346	3,895	4,523	6,699	4,870	5,044	6,656
Integrated circuits, monolithic.....	1,790	2,838	3,365	3,977	5,960	4,237	4,205	5,556
Linear (367410 10).....	224	325	358	482	715	576	598	546
Bipolar, transistor-transistor logic (367410 20).....	351	375	513	715	1,055	653	712	774
Bipolar, emitter coupled logic (367410 30).....	60	47	71	70	114	60	70	112
Not bipolar, metal oxide silicon (367410 40).....	932	1,801	2,085	2,368	3,619	2,598	2,415	3,546
Integrated circuits, NSPF (367410 50).....	224	290	309	343	457	350	403	478
Integrated circuits, other than monolithic (367410 60).....	119	100	96	98	95	128	254	444
Transistors.....	193	259	260	249	322	242	279	318
Less than 1 watt (367420 20).....	116	129	125	114	138	90	111	127
With 1 watt or greater (367420 40).....	77	130	135	134	196	152	168	191
Diodes and rectifiers.....	121	149	174	200	312	283	306	338
Diodes and rectifiers, photo sensitive (36749c 10).....	8	21	22	24	39	39	47	42
Diodes, zener (36749c 20).....	11	15	15	19	38	29	34	39
Diodes and rectifiers, microwave (36749c 30).....	1	2	3	3	3	3	5	8
Thyristors (36748c 40).....	27	43	39	46	60	42	44	47
Diodes and rectifiers, NSPF ³ (36749c 50).....	73	68	95	108	174	150	176	202
SEMICONDUCTORS AND RELATED DEVICES								
Shipments.....	9,455	10,369	11,215	12,801	17,819	15,253	14,930	(NA)
Integrated microcircuits.....	6,768	6,793	7,288	8,647	13,484	10,872	10,925	(NA)
Transistors.....	607	633	506	602	797	681	697	(NA)
Diodes and rectifiers.....	514	638	506	572	686	700	672	(NA)
Semiconductor devices, n.e.c. ⁴	1,388	2,092	2,335	2,484	2,543	2,569	2,003	(NA)
Semiconductors and related devices.....	168	215	480	496	308	431	332	(NA)
Assets, beginning of year.....	4,014	5,547	6,953	6,400	9,789	12,200	(NA)	(NA)
New capital expenditures.....	1,598	1,493	1,614	1,832	2,818	2,832	(NA)	(NA)
Used capital expenditures.....	40	21	37	65	96	390	(NA)	(NA)
Retirements.....	230	358	423	562	543	898	(NA)	(NA)
Assets, end of year.....	5,420	6,703	8,181	9,735	12,159	14,526	(NA)	(NA)
Depreciation charges.....	601	786	841	1,014	1,309	1,512	(NA)	(NA)
Rental payments.....	74	110	121	147	173	184	(NA)	(NA)

NA Not available. ¹ Source: Dataquest Inc., San Jose, CA, *Consolidated Data Base*, April 1988. ² Imports for consumption by SIC group. Includes imports not shown separately. ³ NSPF=Not specifically provided for. ⁴ N.e.c.=Not elsewhere classified.

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports*, series MA-36Q; *U.S. Imports, FT 210 SIC-Based Products*, annual; and *Annual Survey of Manufacturers*.

NO. 1311. MICROCONTROLLERS AND CHIP SHIPMENTS: 1982 TO 1987

ITEM	Unit	1982	1983	1984	1985	1986	1987
Microcontrollers, worldwide:							
Units, number.....	Mil. units.....	212.4	262.8	357.0	340.8	490.3	735.0
8-bit.....	Mil. units.....	54.1	90.6	163.5	163.6	218.0	342.2
4-bit.....	Mil. units.....	158.2	171.9	193.4	177.0	271.9	392.3
16-bit.....	Mil. units.....	.05	.09	.06	.23	.40	.50
Revenue.....	Mil. dol.	427.0	526.3	1,406.7	1,114.3	1,392.2	2,127.7
8-bit.....	Mil. dol.	173.2	267.3	920.3	728.0	890.6	1,327.7
4-bit.....	Mil. dol.	283.0	257.9	475.8	382.3	554.7	792.4
16-bit.....	Mil. dol. ....	.9	1.1	.7	4.0	7.0	7.5
32-bit processor:							
Units, number:							
RISC ¹	Mil. units.....	(NA)	(NA)	(NA)	.005	.017	.060
CISC ²	Mil. units.....	(NA)	(NA)	.010	.095	.453	1,540
Revenue	Mil. dol.	(NA)	(NA)	3.0	19.0	88.0	288.0
RISC ¹	Mil. dol.	(NA)	(NA)	(NA)	3.0	4.0	16.0
CISC ²	Mil. dol.	(NA)	(NA)	3.0	16.0	84.0	272.0
256K RAM ³ chips.....	Mil. units.....	1.0	18.0	200.0	237.8	620.0	766.3
Price.....	Dollars.....	100.00	50.00	25.00	3.65	2.31	2.36
1-Megabit chips.....	Mil. units.....	(NA)	(NA)	(NA)	-	4.3	42.6
Price.....	Dollars.....	(NA)	(NA)	(NA)	162.50	31.11	14.95

¹ Represents zero. NA Not available. ² RISC=Reduced Instruction Set Computer. ³ CISC=Complex Instruction Set Computer. ⁴ RAM=Random Access Memory.

Source: Dataquest, Inc., San Jose, CA, *Consolidated Data Base*, April 1988.

Electronic Equipment—Electronic Products—Machinery

745

NO. 1312. COMPUTERS AND INDUSTRIAL ELECTRONIC EQUIPMENT—SHIPMENTS, BY TYPE: 1975 TO 1987

[In millions of dollars]

TYPE OF EQUIPMENT	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total ¹	13,457	25,990	32,851	39,539	47,835	54,855	58,067	69,576	70,065	68,390	73,320
Computer and peripheral equipment	7,478	15,111	19,686	24,320	29,099	33,286	37,131	46,486	47,829	46,384	50,100
Computers	2,123	5,248	6,908	8,077	10,788	11,356	12,702	17,063	19,292	19,526	21,700
Peripheral equipment ¹	3,732	7,116	8,976	11,730	14,015	14,922	16,910	19,430	19,209	17,679	18,975
Auxiliary storage equipment	937	2,472	3,090	3,956	4,724	4,067	4,318	5,424	5,494	5,331	5,775
Serial access storage	387	723	667	743	777	812	891	1,111	918	950	950
Magnetic storage media:											
Disks: Rigid	(2)	98	141	217	235	739	1,054	1,017	822	772	800
Flexible (floppy)	(2)	74	138	212	277	458	690	562	454	389	350
Computer tape, cassette, etc.	260	47	53	115	108	80	204	251	395	459	530
Computer terminals:											
General purpose:											
Single CRT	413	885	1,303	2,035	1,892	2,138	2,080	1,985	1,052	729	750
Teletypers	277	332	360	491	638	605	573	441	214	186	205
Special purpose, including graphic	103	196	267	325	553	707	1,019	1,194	930	1,056	1,110
Parts for electronic computers	479	1,288	1,586	1,503	1,652	3,201	3,586	5,489	4,509	4,986	5,000
Parts for peripheral equipment	1,144	1,459	2,196	3,010	2,646	3,807	3,933	4,523	4,619	4,183	4,425
Controlling, processing equipment	2,492	4,092	4,856	5,627	6,717	6,523	6,186	7,294	7,410	7,406	7,600
Testing, measuring equipment	1,552	2,483	3,125	3,584	4,144	4,695	5,200	6,279	6,008	5,602	5,900
Medical electronic equipment	829	2,189	2,481	2,703	3,380	4,402	4,845	5,148	5,028	5,183	5,700
Nuclear electronic equipment	292	427	419	384	447	546	490	480	519	533	570

¹ Includes other types of equipment not shown separately. ² Combined with "Computer tape, cassette, cartridge, drum, etc."

NO. 1313. FACTORY SALES OF CONSUMER ELECTRONIC PRODUCTS, BY TYPE: 1975 TO 1987

[In millions of dollars. Includes imports]

PRODUCT	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	5,224	9,107	9,359	10,891	12,453	12,516	14,575	17,774	19,955	22,052	21,870
Color TV receivers	2,268	3,674	3,685	4,210	4,349	4,253	5,002	5,538	5,562	6,024	6,271
Video cassette recorders	34	326	389	621	1,127	1,303	2,162	3,585	4,738	5,258	5,093
Car audio ¹	355	552	623	1,368	2,000	2,100	1,900	2,500	3,000	3,600	3,800
Separate audio components	652	1,143	1,178	1,424	1,363	1,181	1,268	913	1,132	1,358	1,400
Portable audio tape equipment ²	653	1,649	1,739	1,403	1,157	971	1,102	1,191	1,140	1,389	1,431
Audio systems ³	474	748	748	809	720	573	630	976	1,372	1,370	1,048
Blank video cassettes	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	580	931	1,265	1,480	1,188
Home radios	372	436	436	468	501	530	565	661	379	408	409
Monochrome TV receivers	416	549	561	588	505	507	465	419	309	328	287
Color cameras	(NA)	(NA)	(NA)	(NA)	147	232	303	355	228	59	35
Projection TV	(NA)	(NA)	(NA)	(NA)	287	236	268	385	488	529	527
Blank audio cassettes	(NA)	(NA)	(NA)	(NA)	242	219	249	275	277	304	326
Video disc players	(NA)	(NA)	(NA)	(NA)	55	54	81	45	45	45	55

NA Not available. ¹ Prior to 1980, data reflects factory installed products only. ² Prior to 1980, data includes some tape equipment other than portable. ³ Prior to 1981, data include console phonographs.

Source of tables 1312 and 1313: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual.

No. 1314. MACHINERY (EXCEPT ELECTRICAL)—INDUSTRY SUMMARY: 1977 TO 1986

SIC 1 code	INDUSTRY	1977			1982			1986			
		Employees		Value of shipments (mil. dol.)	Employees		Value of shipments (mil. dol.)	New capital expenditures (mil. dol.)	Employees		Value of shipments (mil. dol.)
		Number (1,000)	Payroll (mil. dol.)		Number (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)	
35	Total	2,083	30,558	122,188	2,189	46,911	187,896	8,537	1,863	49,645	208,529
351	Engines and turbines	130	2,238	10,426	112	2,850	13,040	728	90	2,925	14,116
352	Farm and garden machinery	151	2,197	11,857	114	2,386	13,108	392	79	1,814	10,392
353	Constr. and related machinery	333	5,097	23,682	326	7,332	32,038	1,578	209	5,535	25,935
354	Metalworking machinery	298	4,514	13,283	283	6,086	18,150	713	253	6,624	20,476
355	Special industry machinery	185	2,616	9,128	183	3,748	13,128	393	158	4,141	14,926
356	General industrial machinery	313	4,451	16,542	314	6,493	24,459	904	258	6,534	24,751
357	Office and comput. machines	259	3,949	16,842	404	9,437	43,028	2,648	369	11,414	58,830
358	Refrig. and service machinery	192	2,516	12,416	172	3,344	16,450	415	180	4,381	21,118
359	Miscellaneous machinery, except electrical	223	2,980	8,012	282	5,235	14,497	767	273	6,277	17,985

¹ Standard Industrial Classification.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1982*, and *Annual Survey of Manufactures*.

Manufactures

No. 1315. ELECTRIC AND ELECTRONIC EQUIPMENT—INDUSTRY SUMMARY: 1977 TO 1986

SIC 1 code	INDUSTRY	1977			1982			1986			
		Employees		Value of ship- ments (mil. dol.)	Employees		Value of ship- ments (mil. dol.)	New capital expendi- tures (mil. dol.)	Employees		
		Num- ber (1,000)	Pay- roll (mil. dol.)		Num- ber (1,000)	Pay- roll (mil. dol.)			Num- ber (1,000)	Pay- roll (mil. dol.)	
36	Total	1,723	22,544	88,433	1,915	38,414	147,944	7,542	1,941	49,214	196,245
361	Electric distributing equipment.....	115	1,431	5,772	105	1,995	8,108	220	90	2,019	8,603
362	Electrical industrial apparatus.....	198	2,543	9,591	191	3,706	13,825	680	171	4,022	15,839
363	Household appliances.....	162	1,898	10,737	129	2,223	12,644	305	123	2,874	16,649
364	Electric lighting and wiring equipment.....	165	1,925	8,357	159	2,718	12,048	340	161	3,474	18,530
365	Radio and TV receiving equipment.....	98	1,097	6,913	66	1,154	7,833	141	59	1,368	11,938
366	Communication equipment.....	459	6,995	22,744	501	13,979	46,426	2,298	666	19,699	67,435
367	Electronic components and accessories.....	374	4,557	15,990	516	8,770	34,517	3,013	517	12,306	41,985
369	Miscellaneous electrical equipment and supplies.....	152	2,098	8,930	147	2,869	12,544	510	155	3,651	17,067

¹ Standard Industrial Classification.Source: U.S. Bureau of the Census, *Census of Manufactures, 1982*, and *Annual Survey of Manufactures*.

No. 1316. ELECTRONIC COMPUTING EQUIPMENT INDUSTRY—SUMMARY: 1975 TO 1986

[In millions of dollars, except as indicated. Data for the noncensus years (all years except 1977 and 1982) are based on sample surveys and are therefore subject to sampling errors. Included in SIC 3573. See source for further detail]

ITEM	1975	1977	1979	1980	1981	1982	1983	1984	1985	1986
Employment, total (1,000).....	182.5	192.7	273.9	304.6	320.7	337.9	354.4	373.7	355.5	315.0
Salaries and wages.....	2,292	3,004	4,777	5,918	6,951	8,053	9,130	10,471	10,689	10,051
Production workers (1,000).....	73.8	85.5	122.0	134.7	136.0	140.9	150.1	157.7	133.4	114.2
Work-hours (million).....	145.9	172.4	243.8	268.7	263.0	274.5	298.2	306.6	262.0	225.6
Workers wages.....	731	978	1,548	1,875	2,116	2,352	2,695	3,026	2,726	2,418
Value added.....	4,960	7,624	12,465	14,717	17,748	19,598	20,878	25,868	23,418	24,303
Supplemental labor cost.....	343	528	904	1,087	1,296	1,605	1,894	2,110	2,110	1,987
Cost of materials.....	3,705	5,701	9,985	12,787	14,774	17,481	21,418	29,379	30,834	27,350
Value of shipments.....	8,580	12,924	21,456	26,594	32,032	36,787	41,977	53,524	55,315	52,569
New capital expenditures.....	292	652	1,317	1,706	2,125	2,381	2,341	3,037	3,140	2,210
Inventories.....	2,264	3,008	5,524	6,879	7,863	8,446	9,085	11,719	10,320	8,984
Assets, total.....	2,232	3,042	5,198	6,790	8,451	10,250	12,169	14,074	15,814	(NA)
Rents, total.....	82	112	204	251	292	356	434	499	565	(NA)
Ratio of—										
Cost of materials to value of shipments.....	.433	.441	.465	.481	.481	.476	.510	.549	.557	.520
Value added to value of shipments.....	.548	.590	.581	.553	.554	.533	.497	.483	.423	.462
Value added to work-hours.....	32.15	44.22	51.13	54.77	67.48	71.40	70.01	83.55	89.38	107.73

NA. Not available.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977* and *1982*, and *Annual Survey of Manufactures*.

No. 1317. ELECTRONIC COMPONENTS AND ACCESSORIES INDUSTRY—SUMMARY: 1975 TO 1986

[In millions of dollars, except as indicated. Included in SIC 367. See headnote, table 1316]

ITEM	1975	1977	1979	1980	1981	1982	1983	1984	1985	1986
Employment, total (1,000).....	302.3	379.5	467.6	496.5	503.5	515.8	515.0	562.3	558.1	517.0
Salaries and wages.....	3,358	4,557	6,461	7,780	8,664	9,770	10,605	12,648	12,352	12,306
Production workers (1,000).....	197.6	257.9	324.5	336.8	325.5	324.8	329.0	374.7	345.2	313.0
Work-hours (million).....	389.3	508.7	635.2	656.1	631.3	626.3	642.4	736.7	667.0	613.0
Workers wages.....	1,705	2,457	3,484	4,050	4,386	4,645	5,015	6,018	5,808	5,540
Value added.....	5,984	9,280	14,213	16,902	18,537	21,214	23,610	30,427	26,368	25,851
Supplemental labor cost.....	538	811	1,232	1,497	1,723	2,065	2,294	2,752	2,639	2,608
Cost of materials.....	3,984	6,390	9,206	11,434	12,158	13,584	13,912	18,190	16,414	15,843
Value of shipments.....	10,089	15,390	22,708	27,647	30,421	34,517	37,194	47,983	42,921	41,985
New capital expenditures.....	536	783	1,591	2,618	2,459	3,013	2,897	4,410	4,495	3,418
Inventories.....	2,050	2,773	4,376	5,388	5,745	6,436	6,841	8,037	7,621	7,227
Assets, total.....	4,868	6,026	8,142	10,615	12,567	15,489	17,629	21,899	25,123	(NA)
Rents, total.....	108	107	145	189	247	284	315	373	391	(NA)
Ratio of—										
Cost of materials to value of shipments.....	.395	.415	.405	.414	.400	.394	.374	.379	.382	.377
Value added to value of shipments.....	.593	.602	.627	.611	.609	.615	.635	.634	.614	.616
Value added to work-hours.....	15.37	18.20	22.38	26.00	29.36	33.87	36.75	41.30	39.53	42.17

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977* and *1982*, and *Annual Survey of Manufactures*.

Electronic Components Sales—Transportation Equipment—Appliances 747

No. 1318. FACTORY SALES OF ELECTRONIC COMPONENTS BY TYPE: 1975 TO 1987

[In millions of dollars]

TYPE OF COMPONENT	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	9,286	13,518	17,078	21,334	25,571	28,784	29,561	33,856	43,308	39,457	37,113	12,245
Solid state products	2,580	4,363	5,511	7,201	8,089	10,309	10,729	12,570	17,032	14,650	13,932	15,740
Parts	2,593	3,534	4,913	6,030	7,080	7,647	7,403	8,518	10,155	9,328	8,840	8,879
Connectors	734	986	1,288	1,674	2,018	2,203	2,148	2,585	3,200	2,901	2,877	2,990
Wires and cable	(1)	(1)	(1)	789	1,066	1,176	1,304	1,386	1,613	1,475	1,448	1,520
Capacitors	470	744	897	1,050	1,299	1,297	1,169	1,277	1,619	1,198	1,218	1,382
Coils and transformers	489	560	654	776	852	952	842	966	698	587	586	658
Resistors ²	447	477	504	647	653	636	583	638	552	631	670	580
Relays	(NA)	174	177	199	243	245	282	296	512	548	577	510
Switches	141	182	303	366	349	377	446	266	257	940	398	245
Quartz crystals	209	187	227	201	277	413	124	142	167	232	178	185
Filters	71	81	99	126	121	111	118	138	153	226	193	159
Passive networks	32	61	82	111	118	139	138	153	153	226	193	168
TV and FM antennas, parts	(1)	72	84	91	84	85	83	80	72	72	76	71
Electron tubes	1,071	1,276	1,426	1,554	1,744	1,959	1,885	2,049	2,137	2,055	2,125	2,178
Receiving tubes	152	144	134	105	91	100	76	62	36	32	30	28
Power, special purpose	420	519	585	682	738	858	925	1,007	1,059	1,081	1,067	1,119
TV tubes	499	613	707	767	815	1,001	884	980	1,042	982	1,028	1,029
Other components ³	3,042	4,345	5,826	6,549	7,651	8,669	9,544	10,919	13,982	13,423	12,216	12,950

NA Not available. ¹ Included in "Other components." ² U.S. consumption. ³ Includes sockets, delay lines, loudspeakers, magnetic components, transducers, printed circuit boards, microwave components, assemblies, and parts.

Source: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual. (Copyright.)

No. 1319. TRANSPORTATION EQUIPMENT—VALUE OF SHIPMENTS: 1975 TO 1986

[In millions of dollars. "N.e.c." means not elsewhere classified]

TYPE OF EQUIPMENT	1975	1977	1980	1981	1982	1983	1984	1985	1986
Aircraft ¹	10,881	12,053	23,366	25,109	24,235	26,377	24,978	34,977	38,184
Aircraft engines and engine parts	4,488	4,995	10,010	11,556	11,641	11,516	12,841	15,390	18,214
Aircraft equipment, n.e.c.	4,842	5,762	9,946	10,509	10,789	13,171	15,227	15,692	17,905
Boat building and repairing	1,290	1,822	2,129	2,249	2,307	2,594	3,322	3,496	4,049
Motor homes built on purchased chassis	(NA)	1,495	836	1,169	1,036	1,893	1,911	1,872	1,887
Motor vehicles and car bodies	43,394	72,979	61,428	69,457	66,708	80,835	112,358	122,327	125,870
Motor vehicle parts and accessories	23,023	37,842	35,627	40,215	38,414	46,776	55,805	57,931	57,394
Motorcycles, bicycles, and parts	705	847	1,180	1,180	1,143	1,151	1,263	1,044	1,032
Railroad equipment	3,885	4,002	7,173	4,597	2,879	1,948	2,671	2,736	2,613
Ship building and repairing ²	5,513	6,270	8,889	10,690	10,555	9,342	9,483	9,358	8,840

NA Not available. ¹ See table 1051 for number of civil aircraft shipments. ² Value of work done.

Source: U.S. Bureau of the Census, *Census of Manufactures*, 1977, and 1982, and *Annual Survey of Manufactures*.

No. 1320. HOME APPLIANCES AND HOME AUTO ELECTRONICS—IMPORTS: 1984 TO 1987

ITEM	NUMBER (1,000)				RETAIL VALUE (\$1,000)			
	1984	1985	1986	1987	1984	1985	1986	1987
Major appliances:								
Freezers	96	35	198	187	21,973	4,129	42,400	49,074
Microwave ovens	4,471	12,681	8,787	8,724	559,142	775,578	769,169	674,290
Refrigerator/freezer combination	1,072	1,213	1,545	1,708	94,955	105,383	120,540	139,374
Audio:								
Antennas, CB	632	696	1,019	575	3,315	3,102	5,702	2,832
Antennas, radio	9,745	9,844	11,563	8,228	52,203	46,162	63,465	38,398
Audio frequency elec. amplifiers	3,628	4,519	4,384	5,497	168,879	263,473	248,356	282,687
Headphones ¹	30,199	26,395	25,682	52,880	119,357	101,976	104,697	142,832
Loudspeakers	44,290	64,237	71,165	124,569	278,226	365,889	391,394	301,514
Microphones	2,249	2,175	5,924	18,172	25,240	26,925	34,596	47,133
Radios, total	49,425	47,156	43,282	43,679	696,278	814,802	716,393	773,281
Auto transistors	539	2,941	2,826	2,323	30,865	209,783	183,406	159,867
Clock transistor	15,671	13,031	13,898	12,856	196,832	156,914	138,661	122,040
AM transistor (not battery)	987	695	532	641	15,195	28,706	26,619	19,774
AM transistor (battery)	5,784	4,854	3,073	2,492	30,328	25,238	10,006	8,335
FM AM/FM multi-band transistor radios (not battery)	3,007	3,358	2,856	2,871	192,642	190,007	172,715	253,222
FM AM/FM multi-band transistor radios (battery operated)	23,657	22,277	20,199	22,596	230,516	205,154	184,986	210,543
Radio/phone combination ²	49	56	46	2,334	3,668	7,942	25,832	
Radio/phone/tape player combination	420	1,795	1,132	718	29,611	118,272	74,611	42,529
Record changers, auto	175	285	15	15	3,500	14,305	2,837	3,919
Stereo phones	247	354	51	108	14,990	19,653	4,306	6,660
Video:								
Antennas, TV	8,855	6,532	4,412	4,325	12,536	8,525	6,427	6,363
TV, black and white	5,340	4,188	5,314	4,404	283,386	215,205	250,711	217,311
TV, color	6,268	8,146	9,447	6,272	1,022,740	965,200	1,375,935	908,840
Videotape recorders	8,367	16,765	18,216	19,840	2,862,407	4,304,000	4,543,425	2,984,039
Home video camera, B and W	119	196	233	328	38,503	52,044	77,535	79,221
Home video camera, color	730	690	327	144	395,428	367,384	283,851	135,975
Picture tubes, B and W and color	1,228	2,359	2,895	1,248	69,423	103,899	132,308	86,283

¹ Electric sound amplifier sets. ² Includes consoles.

Source: Dealerscope Merchandising, Philadelphia, PA, *Merchandising*, 66th Annual Statistical and Marketing Report.

Manufactures

NO. 1321. HOME APPLIANCES AND HOME AND AUTO ELECTRONICS—SHIPMENTS AND RETAIL VALUE:
1983 TO 1987

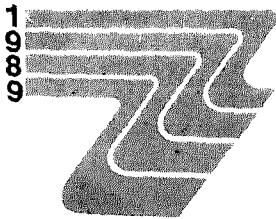
[Compiled from report of associations and manufacturers. Retail value represents median price of product times the number of units shipped. Except as indicated, covers electric appliances only]

PRODUCT	MANUFACTURES SHIPMENTS (1,000 units)					RETAIL VALUE (mil. dol.)				
	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987
Major appliances										
Air treatment	34,421	41,970	43,963	48,092	50,739	14,439	16,906	17,537	18,453	19,499
Air conditioners	2,462	3,736	3,712	3,555	4,838	986	1,495	1,491	1,328	1,738
Dehumidifiers	1,829	2,929	2,900	2,765	3,659	805	1,294	1,286	1,130	1,502
Air cleaners, electronic	437	587	588	553	708	80	107	106	90	113
Kitchen appliances:										
Refrigerators ¹	5,255	5,731	5,874	6,284	6,724	3,807	4,001	4,121	4,289	4,557
Microwave ovens	6,008	9,020	10,633	12,568	12,741	2,568	3,382	3,468	3,600	3,541
Ranges, electric	2,839	3,164	3,218	3,532	3,618	1,239	1,477	1,517	1,589	1,660
Dishwashers	3,054	3,428	3,512	3,874	3,974	1,205	1,368	1,416	1,541	1,559
Freezers ²	1,168	1,114	1,140	1,154	1,180	568	545	546	517	526
Ranges, gas	1,578	1,738	1,807	1,895	2,132	895	785	821	880	892
Disposers	3,514	4,052	4,068	4,196	4,175	395	466	469	494	500
Home laundry	7,426	8,195	8,826	9,544	10,064	3,034	3,414	3,556	3,831	4,024
Dryers	3,111	3,484	3,701	4,114	4,421	1,102	1,259	1,326	1,451	1,544
Washers	4,315	4,711	4,925	5,430	5,643	1,932	2,154	2,231	2,379	2,479
Compact appliances ³	1,259	1,325	1,512	1,400	1,493	334	356	399	374	392
Video	24,584	29,021	33,393	37,131	37,751	10,380	12,041	(NA)	15,111	15,253
TV, color	13,939	15,948	16,894	18,855	19,774	8,695	7,297	7,250	7,832	7,913
Videocassette recorders	4,020	7,143	11,912	12,685	12,304	2,303	3,444	(NA)	5,067	4,788
TV, black and white	5,781	5,088	3,745	3,730	3,506	614	518	367	384	340
Camcorders	(NA)	(NA)	(NA)	1,090	1,438	(NA)	(NA)	(NA)	1,213	1,424
TV projection	142	182	261	315	295	255	347	437	664	657
Video cameras	410	484	402	181	110	358	380	266	118	77
Video cassette players	(NA)	(NA)	(NA)	150	182	(NA)	(NA)	(NA)	28	28
Video disc players	312	168	179	125	142	106	55	51	25	26
Audio/HIFI										
Components ⁴	74,244	72,295	73,157	81,103	82,245	4,848	4,807	4,983	5,542	5,518
Amps, pre-amps, tuners	8,599	8,378	8,800	10,914	11,270	1,518	1,510	1,653	2,041	2,064
Compact disc players	581	549	537	597	609	167	153	151	168	173
Speakers	45	200	850	1,384	1,675	33	104	264	356	346
Receivers	3,237	3,302	3,945	3,789	3,971	452	465	474	535	570
Turntables	1,550	1,653	1,533	1,843	1,957	390	391	394	483	505
Tape decks	2,120	1,696	1,442	1,585	1,382	280	213	172	187	182
Portable tape equipment	880	890	908	1,508	1,458	172	161	176	284	292
Recked systems	28,422	27,109	27,826	30,835	30,753	1,421	1,320	1,333	1,449	1,442
Radios	540	810	877	954	917	358	492	528	560	534
Compact systems	28,188	27,391	27,528	28,986	30,878	863	823	808	845	818
Headphones	1,912	1,833	2,112	2,484	2,554	439	414	433	421	433
Cartridges	3,809	3,040	3,167	3,425	3,634	125	134	134	140	149
Mobile electronics										
Autosound	22,237	23,963	24,718	26,490	28,514	2,028	2,361	2,309	3,111	3,430
UD ⁵ cassette player	19,935	21,299	21,763	21,825	22,981	1,793	1,936	1,987	2,022	2,183
UD ⁵ cassette/radio combo	694	615	554	468	423	59	45	38	30	27
ID ⁶ cassette/radio combo	518	426	371	303	274	59	40	31	24	21
Radio only	975	932	867	757	687	104	94	81	65	59
Car speakers (in pairs)	13,427	14,635	15,162	15,010	16,241	834	936	979	942	993
Radar detectors	710	942	1,227	1,888	1,834	110	137	187	263	277
Citizen band radios	1,592	1,637	1,729	1,884	1,997	125	128	135	146	153
Cellular telephones	(NA)	85	(NA)	265	331	(NA)	162	(NA)	423	509
Auto security systems	(NA)	(NA)	1,028	1,271	(NA)	(NA)	(NA)	(NA)	257	308
Home office										
Calculators	35,745	37,050	38,041	39,399	42,727	1,034	1,100	1,115	6,240	6,844
Electronic typewriters	30,985	31,400	33,168	31,318	33,827	925	946	930	727	838
Personal computers	350	650	850	2,038	2,188	109	154	185	446	484
Monitors	4,500	5,000	4,025	3,075	3,598	(NA)	(NA)	(NA)	2,983	3,313
Printers	(NA)	(NA)	(NA)	950	988	(NA)	(NA)	(NA)	190	197
Personal copiers	(NA)	(NA)	(NA)	1,588	1,599	(NA)	(NA)	(NA)	1,071	1,089
Faximile machines	(NA)	(NA)	(NA)	269	291	(NA)	(NA)	(NA)	239	258
Electronic furniture										
Blank audiocassettes	5,168	5,920	6,260	6,673	6,779	688	830	930	1,028	1,056
Specialty radios	8,107	8,273	8,166	8,154	8,408	(NA)	(NA)	477	490	508
Satellite earth stations	(NA)	450	630	255	252	(NA)	1,310	1,386	513	508
Software:										
Audio:										
Blank audiocassettes	251,855	280,960	266,168	268,500	327,570	587	585	570	451	582
Video:										
Blank videotape	61,690	98,353	156,088	4276,438	4280,551	725	825	1,132	4,161	4,075
Beta	15,870	25,292	27,897	34,795	29,576	175	224	210	145	100
VHS	45,820	72,961	128,181	240,643	249,475	550	700	823	1,003	958
Pre-recorded videotape	8,606	19,680	43,100	45,441	46,183	521	963	1,913	4,2418	4,2417
Beta	2,833	4,922	7,430	6,707	5,947	131	221	301	246	197
VHS	5,973	14,788	35,870	58,234	62,701	389	742	1,613	2,180	2,211
Blank floppy disks	193,000	241,250	205,063	425,000	545,403	(NA)	(NA)	680	680	784
Telephone equipment:										
Corded telephones	15,058	22,930	22,403	23,768	24,046	1,168	894	883	1,006	984
Cordless telephones	4,488	5,500	4,076	4,279	4,841	610	598	380	410	438
Telephone answering equipment	2,094	2,626	3,306	4,856	5,555	264	298	371	535	578

NA Not available. ¹6.5 cu. ft. and over. ²10 cu. ft. and over. ³Refrigerators, freezers, washers, and dryers.

⁴Includes others not shown separately. ⁵UD=under dash, ID=in dash.

Source: Dealerscope Merchandising, Philadelphia, PA, Merchandising, 66th Annual Statistical and Marketing Report.



Section 28

Domestic Trade and Services

This section presents statistics relating to the distributive trades and service industries. Data shown for the trades, classified by kind of business, and for the various categories of services (e.g., personal, business, repair, hotel) cover sales or receipts, establishments, employees, payrolls, and other items. Also included are data for franchised businesses.

The principal sources of these data are census reports and survey reports of the Bureau of the Census. Data on gross product in trade and service industries appear in the monthly *Survey of Current Business*, issued by the U.S. Bureau of Economic Analysis. Financial data for firms engaged in retail, wholesale, or service activities appear in the annual *Statistics of Income*, published by the Internal Revenue Service.

Censuses.—Censuses of retail trade, wholesale trade, and the service industries have been taken at various intervals since 1929. Beginning with the 1967 Census, legislation provides for a census to be conducted every 5 years (for years ending in "2" and "7").

The establishments covered in the censuses and surveys of business are those classified in 3 divisions defined in the *Standard Industrial Classification Manual, 1972* (see text, section 13). *Retail trade* refers to places of business primarily engaged in selling merchandise for personal or household consumption; *wholesale trade*, to establishments primarily engaged in selling goods to dealers and distributors for resale or to purchasers who buy for business and farm uses; and *services*, to establishments primarily engaged in providing a wide range of services for individuals and for businesses.

Data from the 1958 Census of Retail Trade exclude nonemployer establishments which had annual receipts of less than \$2,500. Beginning with the 1963 censuses, nonemployer establishments which did not operate the entire year were included if, during the period they operated, their receipts were at a rate which would have reached specified annual totals had they operated the entire year. Beginning with the 1972 Census of Retail Trade, nonemployer establishments are included if, on an annual basis, they reported sales volume of at least \$1,000. The Census of Wholesale Trade excludes establishments with no paid employees. Beginning in 1977, sales taxes and finance charges are excluded in sales (or receipt) figures of the three censuses.

In 1977 the Census of Service Industries included for the first time health services (except dental laboratories), educational services, social services, membership organizations, and others performing a professional or scientific service (except engineering, architectural, and surveying services). Religious organizations and private households were not covered. While most of these industries were again included in the 1982 census, some were not. In 1982, data were not collected for hospitals, elementary and secondary schools, colleges and universities, labor unions and similar organizations, and political organizations. Also in 1977, tax-exempt service industries were covered for the first time.

The Census of Retail Trade beginning in 1977, excludes nonemployer direct sellers. In 1982, the census treated each leased department in a store as a separate establishment and classified it according to the kind-of-business it conducted. In prior years, data for leased departments were consolidated with the data for stores in which they were located.

In the retail and service censuses prior to 1982, combined data for all establishments (nonemployer firms plus establishments of employer firms) were presented for selected kind-of-business classifications. In 1982 these data could not be published by kind-of-business because many nonemployer firms were miscoded by the Internal Revenue Service (IRS) into miscellaneous categories rather than specific kind-of-business. For retail trade and services, total establishment summary data are available but kind-of-business detail are available only on a national level from the Bureau.

Current surveys.—Current sample surveys conducted by the Bureau of the Census cover various aspects of the retail and wholesale trade and selected service industries. Its *Monthly Retail Trade Report* contains monthly estimates of sales, inventories, and sales of organizations operating 11 or more retail stores (see table 1330), for the United States, by kind of business. In addition,

monthly retail sales data for census regions and divisions, large States, metropolitan areas, and cities are included. Annual figures on sales, yearend inventories, and sales/inventory ratios, by kind of business, appear in the *Annual Retail Trade Report*.

Statistics from the Bureau's monthly wholesale trade survey include national estimates of merchant wholesalers' sales, inventories, and stock-sales ratios by major summary groups—durable and nondurable—and selected kinds of businesses. Merchant wholesalers are those wholesalers who take title to the goods they sell (e.g., jobbers, exporters, importers, major distributors). These data, based on reports submitted by a sample of firms, appear in the *Monthly Wholesale Trade Report*. Annual figures on sales, sales-inventory ratios, and yearend inventories appear in the *Annual Wholesale Trade Report*.

The *Service Annual Survey* provides annual estimates of receipts for selected service establishments for the United States as a whole.

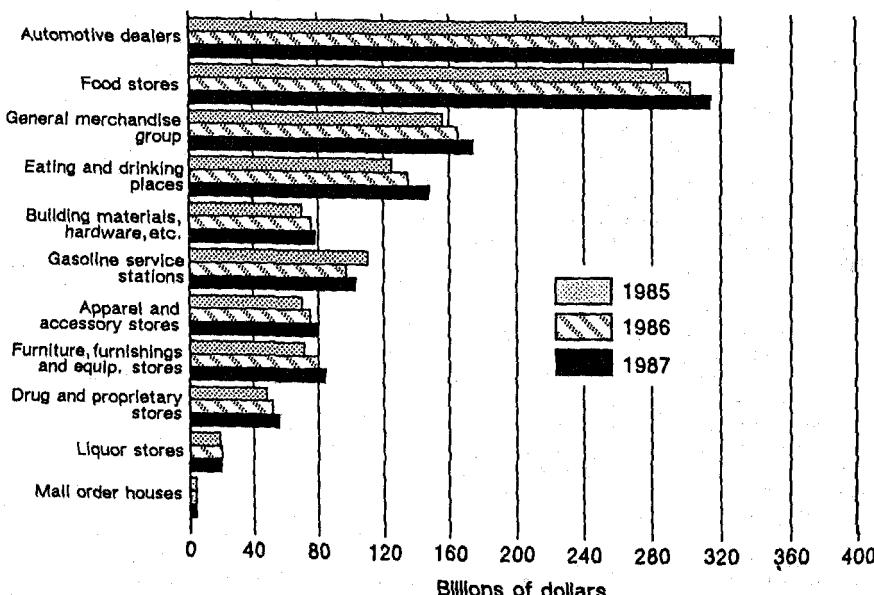
For the current sample survey programs, retail trade coverage is the same as for the census; wholesale trade coverage is limited to merchant wholesalers; and selected services coverage is less inclusive than the census.

Estimates obtained from annual and monthly surveys are based on sample data and are not expected to agree exactly with results that would be obtained from a complete census of all establishments. Data include estimates for establishments not reporting.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

Figure 28.1
Retail Store Sales by Kind of Business: 1985 to 1987



Source: Chart prepared by U.S. Bureau of the Census. For data see table 1329.

Domestic Trade and Service Industries

751

No. 1322. GROSS NATIONAL PRODUCT IN DOMESTIC TRADE AND SERVICE INDUSTRIES IN CURRENT AND CONSTANT (1982) DOLLARS: 1970 TO 1987

[In billions of dollars, except percent. For definition of gross national product, see text, section 14. Based on 1972 Standard Industrial Classification]

INDUSTRY	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
CURRENT DOLLARS										
Wholesale and retail trade...										
Percent of gross national product.....	168.7	273.7	438.9	483.1	506.5	542.9	613.9	658.2	698.4	740.4
Wholesale trade	16.6	17.1	16.1	15.8	16.0	15.9	16.3	16.4	16.5	16.4
Retail trade	68.2	117.5	193.9	214.0	219.0	226.5	263.1	280.8	294.8	313.0
Services.....	100.5	156.2	245.0	269.1	287.5	316.4	350.8	377.4	403.6	427.4
Percent of gross national product.....	120.2	199.8	374.0	422.6	463.6	515.5	580.2	649.1	716.3	793.5
Hotels and other lodging places.....	11.8	12.5	13.7	13.8	14.6	15.1	15.4	16.1	16.9	17.5
Personal services.....	6.3	10.1	18.9	20.4	21.7	24.3	27.0	30.4	32.7	35.8
Business services.....	9.3	11.4	18.8	19.5	21.3	23.1	25.0	29.7	32.2	34.4
Auto repair, services, and garages.....	6.3	11.2	21.1	23.1	23.5	26.1	29.2	33.2	38.1	38.9
Miscellaneous repair services	2.7	4.6	9.2	9.2	9.6	10.8	12.8	12.4	13.4	13.9
Motion pictures.....	2.3	3.1	5.0	5.5	6.3	6.6	7.3	9.0	9.5	10.7
Amusement and recreation services.....	4.8	7.7	12.4	14.0	15.1	16.8	17.8	19.9	21.8	24.0
Health services.....	31.4	57.8	108.1	124.7	142.0	156.1	169.0	184.6	199.1	223.7
Legal services.....	7.8	12.5	23.3	25.9	30.6	35.0	41.6	46.3	53.7	62.9
Educational services.....	7.1	11.4	16.0	17.5	19.1	21.0	23.5	25.8	27.2	29.6
Social services and membership organizations.....	10.0	15.9	28.3	28.4	30.5	32.8	35.7	38.3	41.7	45.3
Miscellaneous professional services.....	10.3	18.8	39.6	47.5	45.7	49.8	56.9	62.6	78.3	86.4
Private households.....	4.5	4.6	6.6	7.0	7.6	8.2	8.9	9.0	9.1	9.2
CONSTANT (1982) DOLLARS										
Wholesale and retail trade...										
Percent of gross national product.....	367.6	433.1	500.4	507.3	506.5	529.0	578.9	610.3	642.9	660.0
Wholesale trade	15.2	16.1	15.7	15.6	16.0	16.1	16.5	16.9	17.3	17.2
Retail trade	152.0	185.6	213.5	218.4	219.0	222.0	250.6	268.5	282.7	291.7
Services.....	215.6	247.5	286.9	288.9	287.5	307.0	328.3	341.8	360.2	368.3
Percent of gross national product.....	285.7	352.4	442.6	462.5	463.6	486.6	514.0	546.4	578.9	610.8
Hotels and other lodging places.....	12.2	13.1	13.9	14.2	14.6	14.8	14.7	15.1	15.6	15.5
Personal services.....	17.1	19.2	22.6	22.3	21.7	22.5	22.9	23.5	23.4	24.3
Business services.....	22.9	21.1	22.2	21.0	21.3	21.8	22.4	25.4	26.4	27.1
Auto repair, services, and garages.....	47.5	57.1	84.0	88.5	90.7	100.0	111.0	120.8	129.8	139.7
Miscellaneous repair services	14.9	19.2	24.4	24.5	23.5	25.2	27.3	30.1	31.7	32.9
Motion pictures.....	4.9	7.4	8.8	9.7	9.6	9.7	10.2	10.3	10.1	10.2
Amusement and recreation services.....	9.2	11.3	13.7	14.7	15.1	16.1	16.4	17.9	18.9	20.3
Health services.....	77.8	103.5	129.4	137.7	142.0	146.7	153.1	158.9	165.7	176.9
Legal services.....	23.2	24.7	28.9	30.6	30.6	31.6	32.8	35.0	36.3	37.9
Educational services.....	14.6	16.8	18.1	18.6	19.1	19.8	20.6	21.5	21.6	22.4
Social services and membership organizations.....	22.1	25.7	30.2	30.5	30.5	31.1	32.3	33.3	34.7	35.9
Miscellaneous professional services.....	24.4	33.0	47.1	51.3	45.7	47.7	49.9	53.6	63.8	66.7
Private households.....	11.3	8.2	7.4	7.3	7.6	8.1	8.8	8.8	8.8	8.8

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

NO. 1323. PERSONS WORKING IN DOMESTIC TRADE AND SERVICE INDUSTRIES: 1970 TO 1987

[In thousands. Data represent worker-years of full-time equivalent employment by persons working for wages or salaries and number of active partners and proprietors of unincorporated businesses who devote a majority of their working hours to their unincorporated businesses. Based on 1972 Standard Industrial Classification]

INDUSTRY	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Wholesale and retail.....										
14,889	16,500	19,395	19,604	19,419	19,815	21,038	21,747	22,215	22,941	
Wholesale trade	4,123	4,521	5,395	5,522	5,409	5,409	5,697	5,804	5,838	5,988
Retail trade	10,766	11,879	13,099	14,082	14,010	14,406	15,341	15,943	16,377	16,943
Services.....										
13,380	15,650	19,526	20,230	20,729	21,571	22,895	23,928	24,807	26,107	
Hotels and other lodging places.....	1,003	1,117	1,281	1,310	1,340	1,382	1,461	1,571	1,603	1,670
Personal services.....	1,341	1,182	1,330	1,337	1,334	1,379	1,443	1,503	1,528	1,595
Business services.....	1,666	2,054	3,077	3,251	3,345	3,703	4,273	4,650	5,010	5,483
Auto repair, services, garages.....	508	638	838	865	908	927	1,022	1,090	1,129	1,156
Miscellaneous repair services	316	399	475	519	515	523	548	555	544	546
Motion pictures.....	181	217	268	266	274	280	283	295	304	
Amusement, recreation services.....	402	520	683	695	702	717	747	751	764	789
Health services.....	2,905	4,114	5,218	5,461	5,677	5,821	5,972	6,142	6,356	6,647
Legal services.....	401	501	690	732	786	830	883	921	952	1,048
Educational services.....	1,001	1,151	1,241	1,277	1,311	1,360	1,414	1,470	1,480	1,532
Social services and membership organizations.....	1,758	2,025	2,361	2,373	2,382	2,470	2,545	2,607	2,722	2,856
Miscellaneous professional services.....	746	939	1,348	1,402	1,435	1,447	1,541	1,633	1,671	1,741
Private households.....	1,154	793	755	740	727	738	766	753	753	740

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

Domestic Trade and Services

No. 1324. RETAIL TRADE—SUMMARY: 1954 TO 1982

(Prior to 1958 and as noted, excludes Alaska and Hawaii. 1972 through 1982 not strictly comparable with prior years due to changes in Standard Industrial Classification; for details, see source. See also *Historical Statistics, Colonial Times to 1970*, series T 43-47 and T 79-91.)

ITEM	UNIT	1954	1958	1963	1967	1972	1977	1982
Firms, total.....	1,000	(NA)	(NA)	1,532	1,577	1,665	1,567	1,573
Multifunit establishments ¹	1,000	167	2,183	220	220	301	343	415
Establishments, total.....	1,000	1,722	1,795	1,708	1,763	1,780	1,855	1,923
With payroll.....	1,000	1,124	1,185	1,206	1,192	1,265	1,304	1,330
With sales of \$1,000,000 or more.....	1,000	(NA)	(NA)	(NA)	(NA)	74	119	193
Consumer Price Index: ³								
All items.....	1982-84 = 100.....	26.9	28.9	30.6	33.4	41.8	60.6	96.5
All commodities.....	1982-84 = 100.....	31.6	33.3	34.4	36.8	44.5	64.2	97.0
Sales.....	Bil. dol.	170.0	200.4	244.2	310.2	457.4	723.1	1,065.8
By establishments with payroll.....	Bil. dol.	157.9	187.8	233.1	295.2	440.2	699.6	1,039.0
By multifunit establishments ¹	Bil. dol.	51.2	2,67.2	89.5	123.5	201.8	340.7	566.7
Percent of total sales.....	Percent.....	30.1	33.5	36.6	39.8	44.0	47.1	53.2
Percent of multifunit sales by 101-or-more establishment multifunits ⁴	Percent.....	41.8	42.4	43.1	46.7	55.8	55.8	54.5
In 1982 dollars ⁵	Bil. dol.	(NA)	645.0	763.9	943.3	1,054.2	1,065.8	1,065.8
Percent of sales by corporations.....	Percent.....	48.4	53.0	61.9	67.4	76.4	79.8	84.6
Per capita sales: ⁶								
Current dollars.....	Dollars.....	1,055	1,156	1,296	1,571	2,186	3,291	4,599
Constant (1982) dollars ⁵	Dollars.....	(NA)	(NA)	3,423	3,869	4,508	4,798	4,599
Sales as percent of personal income.....	Percent.....	58.6	2,55.5	52.4	49.3	48.1	46.9	41.5
Sales, inside SMSAs ⁷	Bil. dol.	(NA)	2,133.0	169.8	221.4	(NA)	551.8	845.0
Percent of total sales.....	Percent.....	(NA)	66.4	69.5	71.4	(NA)	76.3	79.3
Payroll, entire year.....	Bil. dol.	18.2	21.7	27.6	36.2	55.4	85.9	123.6
Percent of sales.....	Percent.....	11.5	21.1	11.3	11.7	12.1	11.9	11.6
Paid employees, March 12 workweek ⁸	1,000	7,124	7,942	8,410	9,381	11,211	13,040	14,468

NA Not available. ¹ Establishments operated by firms which operate at two or more locations. Beginning 1982, includes single units operated by multifunit establishments. 1972 and 1977 data revised since originally published. ² Excludes Alaska and Hawaii. ³ Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*. For 1982, CPI-U, see text, section 14. ⁴ For 1982, data provided for percent of multifunit sales by 100-or-more establishment units. ⁵ Based on implicit price deflators for retail sales supplied by U.S. Bureau of Economic Analysis. ⁶ Based on estimated resident population as of July 1. ⁷ For definition of SMSA, see Appendix II. ⁸ 1954-1963 data for week including November 15.

Source: Except as noted, U.S. Bureau of the Census, *U.S. Census of Business: 1954*, vol. I; *1958*, vol. I; *1963*, vol. I; *1967*, vol. I; and *Census of Retail Trade, 1972*, RC 72-S-1, 1977, RC 77-52 and *1982*, RC 82-A-52 and RC 82-I-1.

No. 1325. RETAIL TRADE ESTABLISHMENTS—NUMBER, SALES, AND EMPLOYEES, BY KIND OF BUSINESS: 1977 AND 1982

[Data for 1977 are adjusted for comparable treatment of leased departments between 1977 and 1982. Each kind-of-business classification includes leased departments classified in that kind of business as if they were separate establishments. See *Historical Statistics, Colonial Times to 1970*, series T 79-198 for similar but not comparable data]

KIND OF BUSINESS	ESTABLISHMENTS (1,000)		SALES (mil. dol.)		ANNUAL PAYROLL (mil. dol.)		PAID EMPLOYEES ¹ (1,000)	
	1977	1982	1977	1982	1977	1982	1977	1982
	1,870.4	1,923.2	720,459	1,065,917	85,417	123,619	12,968	14,468
Retail trade, total.....	90.6	88.5	38,914	50,993	4,372	6,221	471	504
Building materials, hardware, garden supply, and mobile home dealers ²	40.6	40.1	27,123	35,144	2,993	4,179	294	307
Building materials, supply stores.....	48.9	44.7	87,825	120,414	11,906	14,822	1,865	1,899
General merchandise group stores ²	6.8	10.0	76,909	107,163	10,743	(NA)	1,644	(NA)
Department stores (incl. leased dep'ts) ³	8.8	10.0	71,053	99,170	9,966	12,495	1,519	1,515
Department stores (excl. leased dep'ts) ³	252.9	241.7	158,444	246,121	14,777	23,530	1,984	2,348
Food stores ²	179.0	168.0	148,116	230,696	13,370	21,364	1,694	2,031
Grocery stores.....	139.7	129.3	150,130	193,515	13,338	16,882	1,119	1,051
Automotive dealers ²	30.8	27.2	121,828	154,726	10,274	12,309	790	699
Motor vehicle dealers:								
New and used cars.....	37.0	34.6	6,945	8,207	374	450	42	36
Used cars only.....	47.7	48.8	13,095	21,158	1,968	3,223	210	245
Auto and home supply stores.....	177.6	135.5	56,638	97,440	3,834	4,768	673	604
Apparel and accessory stores ²	55.1	58.8	37,164	57,816	5,207	7,563	866	979
Women's clothing and specialty stores and furriers.....	21.6	23.7	13,628	22,264	1,902	2,758	353	397
Family clothing stores.....	33.4	39.4	7,058	11,419	969	1,571	146	189
Furniture, home furnishings, and equipment stores.....	139.1	131.7	33,315	46,761	4,583	6,287	515	543
Radio, television, and music stores.....	38.6	35.2	8,180	13,813	1,023	1,662	124	146
Eating and drinking places ²	369.0	361.7	63,371	104,592	15,437	25,708	3,765	4,666
Eating places.....	275.2	301.7	55,670	95,091	14,040	23,987	3,431	4,341
Drug and proprietary stores.....	50.3	52.0	23,981	36,440	3,154	4,605	463	496
Miscellaneous retail stores ²	454.7	559.0	71,279	111,824	8,810	13,232	1,246	1,438
Liquor stores.....	44.6	41.5	13,031	18,146	916	1,310	146	167
Fuel and ice dealers.....	20.3	15.7	10,168	17,059	1,026	1,405	101	95

NA Not available. ¹ For pay period including March 12. ² Includes other kinds of businesses, not shown separately. ³ Includes sales from catalog order desks.

Source: U.S. Bureau of the Census, *1982 Census of Retail Trade*, RC82-A-52 (change sheet, June 1985).

Retail Establishments and Employees—Retail Companies

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No. 1326. RETAIL TRADE—ESTABLISHMENTS, EMPLOYEES, AND PAYROLL: 1980 TO 1986

[Excludes government employees, railroad employees, self-employed persons, etc. For statement on methodology, see Appendix III.]

SIC ¹ code	KIND OF BUSINESS	ESTABLISHMENTS (1,000)			EMPLOYEES (1,000)			Payroll, 1986 (bil. dol.)
		1980	1985	1986	1980	1985	1986	
(G)	Retail trade, total.....	1,222.9	1,406.8	1,441.2	15,047	16,852	17,550	193
52	Building materials and garden supplies ²	62.4	68.5	69.6	535	585	626	9
521	Lumber and other building materials.....	24.2	26.3	26.9	289	322	347	6
523	Paint, glass, and wallpaper stores.....	8.6	9.3	9.5	44	46	49	1
525	Hardware stores.....	18.4	19.5	19.4	129	134	143	2
526	Retail nurseries and garden stores.....	6.3	8.5	8.8	43	56	61	1
53	General merchandise stores ²	36.9	35.3	36.0	1,965	1,942	1,954	19
531	Department stores.....	9.2	10.0	10.3	1,591	1,615	1,630	16
533	Variety stores.....	12.4	10.7	10.5	195	153	144	1
539	Misc. general merchandise stores.....	14.9	13.8	14.2	178	170	174	2
54	Food stores ²	157.6	182.7	187.4	2,225	2,595	2,723	29
541	Grocery stores.....	115.0	130.3	133.1	1,917	2,241	2,358	26
546	Retail bakeries.....	15.7	19.0	19.9	149	174	176	1
55	Automotive dealers and service stations ²	202.3	200.9	201.6	1,745	1,855	1,930	34
551	New and used car dealers.....	27.2	26.1	26.2	793	839	884	21
553	Auto and home supply stores.....	35.2	41.2	41.9	225	264	271	4
554	Gasoline service stations.....	116.9	105.8	103.9	601	609	614	6
56	Apparel and accessory stores ²	124.6	139.3	141.8	944	1,034	1,081	10
561	Men's and boys' clothing and furnishings.....	18.1	15.9	15.4	140	118	117	1
562	Women's ready-to-wear stores.....	40.0	44.4	45.1	380	387	414	3
565	Family clothing stores.....	14.5	16.8	15.8	184	221	226	2
566	Shoe stores.....	32.5	37.3	37.4	178	194	195	2
57	Furniture and home furnishings stores ²	84.4	98.0	101.4	577	631	668	10
571	Furniture and home furnishings stores.....	50.4	54.3	55.5	382	363	376	6
572	Furniture stores.....	29.1	29.3	29.7	238	225	230	4
573	Household appliance stores.....	10.0	9.8	10.1	65	63	66	1
	Radio and television stores.....	14.3	23.2	24.0	88	140	153	2
58	Eating and drinking places ²	282.5	351.3	362.8	4,492	5,302	5,577	38
5812	Eating places.....	217.3	281.4	289.5	4,053	4,879	5,087	34
5813	Drinking places.....	54.0	52.8	50.2	319	277	266	2
59	Miscellaneous retail ²	260.3	317.8	327.2	1,914	2,133	2,205	26
591	Drug stores and proprietary stores.....	46.8	50.7	50.9	498	539	542	6
592	Liquor stores.....	26.7	32.5	32.4	140	154	153	1
5941	Sporting goods and bicycle shops.....	15.8	18.3	18.8	96	104	109	1
5944	Jewelry stores.....	20.2	23.4	24.5	140	133	136	2
5947	Gift, novelty, and souvenir stores.....	16.5	23.0	23.4	84	120	123	1
5961	Mail order houses.....	6.4	7.1	6.2	134	114	111	2
5992	Florists.....	18.8	23.5	24.4	99	114	121	1
	Administrative and auxiliary.....	11.9	13.0	13.1	650	775	785	18

¹ Standard Industrial Classification; see text, section 13. ² Includes industries not shown separately.

Source: U.S. Bureau of the Census, *County Business Patterns*, annual.

No. 1327. LARGEST RETAILING COMPANIES—SALES, ASSETS, NET INCOME, AND EMPLOYEES, BY SALES GROUP: 1980 TO 1986

[Sales, assets, and net income in billions of dollars; employees in thousands; except percent. Excludes large privately owned companies that do not publish sales. Includes all reported data for fiscal years ending not later than January following year stated.]

RANK BY SALES GROUP	SALES ¹			ASSETS ²			NET INCOME ³			EMPLOYEES ⁴		
	1980	1985	1986	1980	1985	1986	1980	1985	1986	1980	1985	1986
50 largest.....	200.8	319.3	325.8	96.3	195.0	188.4	3.8	7.6	7.6	3,240	3,887	3,763
Top 10.....	109.3	168.4	178.9	56.0	114.8	122.2	1.9	3.4	3.9	1,614	1,821	1,950
11th-20th.....	40.6	63.4	66.7	16.4	34.0	23.6	5.5	1.3	1.6	591	720	859
21st-30th.....	23.8	41.8	38.0	12.3	25.5	24.7	.7	1.5	1.2	569	784	551
31st-40th.....	15.7	26.7	23.7	7.3	12.5	9.8	.5	.6	.5	324	317	189
41st-50th.....	11.5	19.1	17.3	4.3	8.2	8.1	.3	.8	.3	143	245	205
Percent of total:												
Top 10.....	54.4	52.7	55.3	58.2	58.9	64.9	48.7	44.3	51.3	49.8	46.8	51.8
11th-20th.....	20.2	19.9	20.5	17.0	17.4	12.5	12.3	17.0	21.1	18.2	18.5	22.8
21st-30th.....	11.8	13.1	11.7	12.7	13.1	13.1	18.5	20.2	15.8	17.6	20.2	14.6
31st-40th.....	7.8	8.4	7.3	7.6	6.4	5.2	13.8	8.3	8.6	10.0	8.1	5.3
41st-50th.....	5.7	6.0	5.3	4.5	4.2	4.3	6.8	10.2	3.9	4.4	6.3	5.4

¹ Includes sales of subsidiaries when they are consolidated and sales from discontinued operations. ² Total assets employed in business at end of fiscal year. ³ After taxes, and extraordinary charges and credits. ⁴ As of year end, or yearly average.

Source: Time, Inc., New York, NY, adapted from *The Fortune Directories*. (Copyright.)

Domestic Trade and Services

NO. 1328. RETAIL TRADE SALES—SUMMARY: 1970 TO 1987

[Data reflect use of a new sample of retail stores, based on kind-of-business classifications from the 1982 Census of Retail Trade, which was selected and implemented during 1986. Sales and inventory estimates from the old sample were converted to a level comparable with the new sample. Sales and inventories for leased departments and concessions are tabulated in the kind-of-business category of the leased department or concession. Based on Current Business Survey, see Appendix III. Minus sign (—) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series T 245, 246, and 255.]

YEAR	CURRENT DOLLARS						CONSTANT (1982) dollars ⁴		
	Total sales (bil. dol.)	Annual percent change ¹	Per capita ² (dol.)	Index of sales (1982=100)	Durable goods (bil. dol.)	Non durable goods (bil. dol.)		Total sales (bil. dol.)	Annual percent change ¹
						Total	Dept. stores ³		
1970	375.2	6.4	1,839	35.1	114.8	260.3	37.4	822.7	2.5
1971	414.2	10.4	2,002	38.7	135.4	278.8	41.8	874.7	6.9
1972	458.5	10.7	2,191	42.9	156.3	302.2	45.9	945.6	8.1
1973	511.9	11.6	2,422	47.9	177.2	334.7	51.0	990.7	4.8
1974	542.0	5.9	2,541	50.7	172.9	389.1	53.8	937.4	-5.4
1975	588.1	8.5	2,730	55.0	165.9	402.2	57.5	944.0	.7
1976	656.4	11.6	3,017	61.4	220.4	436.0	63.5	1,007.2	6.7
1977	722.5	10.1	3,288	67.6	249.4	473.1	71.1	1,053.3	4.6
1978	804.2	11.3	3,621	75.2	281.4	522.7	78.0	1,096.0	4.1
1979	896.8	11.5	3,993	83.9	307.5	589.2	82.5	1,112.8	1.5
1980	957.3	6.8	4,212	89.5	300.2	657.1	86.2	1,073.3	-3.5
1981	1,038.7	8.5	4,523	97.1	326.2	712.4	95.8	1,077.4	.4
1982	1,069.3	2.8	4,609	100.0	338.0	731.2	99.2	1,089.3	-.8
1983	1,168.4	9.3	4,987	109.3	391.0	777.4	112.0	1,147.1	7.3
1984	1,262.6	9.8	5,424	119.8	454.0	828.6	123.8	1,226.5	6.8
1985	1,367.3	6.6	5,727	127.9	497.0	870.3	129.4	1,278.8	4.3
1986	1,437.5	5.1	5,962	134.4	538.6	989.8	137.2	1,350.3	5.6
1987	1,510.6	5.1	6,206	141.3	559.1	951.5	146.5	1,359.2	.7

¹ Change from immediate prior year. ² Based on Bureau of the Census estimates of resident population as of July 1.

³ Excludes leased departments. ⁴ Based on implicit price deflators for retail sales supplied by U.S. Bureau of Economic Analysis.

Source: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Retail Sales and Inventories, January 1978 through December 1987*, (BR-13-87S) and unpublished data.

NO. 1329. RETAIL TRADE—SALES, BY KIND OF BUSINESS: 1970 TO 1987

[In billions of dollars. Based on 1972 Standard Industrial Classification. See headnote, table 1328. Based on Current Business Survey, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series T 245-271]

SIC ¹ code	KIND OF BUSINESS	1970	1975	1980	1982	1983	1984	1985	1986	1987
	Retail trade, total	375.2	588.1	957.3	1,069.3	1,168.4	1,282.6	1,387.3	1,437.5	1,510.6
	Durable goods stores, total ²	114.8	185.9	300.2	338.0	391.0	454.0	497.0	538.6	559.1
55 exc. 554	Automotive dealers.....	65.2	107.3	164.7	193.5	229.2	271.2	299.5	320.3	326.9
551,2,5,6,7,9	Motor vehicle, misc. automotive dealers	59.2	97.3	146.2	172.4	206.9	247.7	273.6	294.4	299.8
551,2	Motor vehicle dealers	57.2	89.5	137.7	162.9	197.0	234.1	258.7	277.7	280.3
551	Motor vehicle dealers, franchised	54.3	84.9	130.5	154.7	187.0	224.2	248.7	266.0	267.1
553	Auto and home supply stores	6.0	10.1	18.5	21.2	22.3	23.6	25.9	25.9	27.0
52	Building materials, hardware, garden supply, mobile home dealers ²	18.1	27.3	50.8	51.0	58.5	66.6	70.4	75.8	78.0
521,3	Building materials, supply stores	11.3	17.9	35.0	35.1	40.8	46.1	49.1	54.1	57.9
525	Hardware stores	3.0	5.2	8.3	8.7	9.5	11.0	11.6	12.3	14.1
57	Furniture, home furnishings, equipment ²	17.0	27.0	44.2	46.8	55.3	63.0	71.3	80.3	84.1
571	Furniture, home furnishings stores	10.4	16.5	26.3	27.1	31.1	35.2	37.6	41.9	44.2
5722,32	Household appliance, radio, TV	5.6	8.2	14.0	15.8	20.1	23.7	29.2	33.3	34.5
	Honorable goods stores, total ²	280.3	402.2	657.1	731.2	777.4	828.6	870.3	889.8	951.5
56	Apparel and accessory stores ²	22.1	32.4	50.4	57.8	60.0	64.0	69.6	74.8	79.1
561	Men's, boys' clothing, furnishings	4.5	6.6	7.7	7.8	8.0	8.4	8.7	9.0	9.0
582,3,8	Women's clothing, specialty stores, furriers	8.2	12.4	18.7	22.3	22.0	24.2	26.9	29.7	31.2
582	Women's ready-to-wear stores	7.1	11.4	17.0	20.4	20.1	21.6	24.3	26.7	28.2
585	Family clothing stores	4.4	6.7	10.8	13.7	15.1	15.8	16.8	17.8	19.5
586	Shoe stores	4.5	5.8	10.5	11.4	11.8	12.1	12.7	13.4	14.6
591	Drug and proprietary stores	14.6	20.0	31.0	36.4	40.8	44.5	47.9	51.6	56.0
58	Eating and drinking places	30.5	51.1	90.1	104.6	112.5	119.6	125.1	135.3	147.6
5812	Eating places	25.5	44.4	80.4	95.1	102.7	109.4	114.2	123.6	135.1
54	Food stores	90.0	138.7	220.2	246.1	257.1	274.2	288.6	301.8	314.3
541	Grocery stores	82.6	129.1	205.6	230.7	241.1	258.0	271.8	284.1	296.1
554	Gasoline service stations	28.9	47.6	94.1	97.4	101.8	105.2	109.6	97.3	103.2
53	General merchandise group stores	49.1	73.7	106.6	120.4	135.1	148.7	155.9	165.1	175.9
531	Department stores ³	37.4	57.5	86.2	99.2	112.0	123.8	129.4	137.2	146.5
533	Variety stores	6.1	7.9	7.8	8.2	8.6	9.1	9.1	8.3	8.4
539	Misc. gen. merchandise group stores ⁴	5.7	8.3	12.6	13.0	14.5	15.8	17.3	19.6	20.9
592	Liquor stores	8.4	11.9	16.9	18.1	19.1	18.1	19.3	19.6	19.5
596	Non-store retailers ³	9.1	13.4	22.8	23.8	24.3	25.7	25.0	25.7	26.5
5961 pt.	Mail-order houses (department store merchandise)	1.8	2.8	4.3	4.3	4.3	4.8	4.2	3.7	3.6

¹ Standard Industrial Classification; see text, section 13.

² Includes kinds of business, not shown separately.

³ Excludes leased departments.

⁴ Includes catalog showroom stores.

Source: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Retail Sales and Inventories, January 1978 through December 1987*, (BR-13-87S) and unpublished data.

NO. 1330. RETAIL TRADE—SALES OF MULTIUNIT ORGANIZATIONS, BY KIND OF BUSINESS:
1980 TO 1987

[Data based on sales of companies which had 11 or more retail establishments according to the most recent update of multiestablishment files selected with certainty (i.e., their sales size exceeded specified dollar volume cutoffs which varied by kind of business). For details, see source. See also *Historical Statistics, Colonial Times to 1970*, series T 197-219.]

SIC ¹ code	KIND OF BUSINESS	SALES (bil. dol.)						PERCENT OF TOTAL RETAIL SALES		
		1980	1983	1984	1985	1986	1987	1980	1985	1987
	Total sales.....	357.2	448.4	485.5	512.0	534.1	569.1	37.3	37.4	37.7
553	Durable goods stores.....	34.2	45.1	51.3	55.2	59.8	67.7	11.4	11.1	12.1
	Auto and home supply stores.....	4.7	5.1	5.4	6.0	6.7	7.2	26.2	23.3	26.6
	Nondurable goods stores ²	322.9	403.3	434.1	456.8	474.4	501.4	49.1	52.5	52.7
56	Apparel and accessory stores ²	21.1	29.2	31.8	35.4	39.0	42.4	42.7	50.9	53.6
562,3,8	Women's ready-to-wear, accessory and fur.....	8.3	10.8	12.0	14.0	15.8	17.1	47.1	52.0	54.8
566	Shoe stores.....	5.3	6.8	7.1	7.5	8.3	8.9	50.8	59.2	60.9
591	Drug and proprietary stores.....	16.8	23.6	26.8	28.4	30.8	32.9	54.3	59.4	58.7
54	Food stores.....	119.8	146.0	155.3	164.3	171.1	179.8	54.4	56.9	57.2
541	Grocery stores.....	118.1	143.6	152.9	161.6	168.3	176.9	57.4	59.4	59.7
53	General merchandise group.....	98.5	124.9	137.8	144.2	153.1	162.3	90.6	92.5	92.3
531	Department stores.....	85.0	108.3	119.8	125.3	133.1	142.1	96.1	96.8	97.0
533	Variety stores.....	6.3	7.1	7.5	7.5	6.6	6.7	80.9	82.9	79.7
539	Misc. general merchandise group stores.....	7.3	9.5	10.5	11.3	13.3	13.5	58.1	65.3	64.4
5812	Eating places.....	22.6	29.3	31.5	32.8	35.0	37.5	28.1	28.7	27.7

¹ Standard Industrial Classification; see text, section 13. ² Includes kinds of business not shown separately.

Source: U.S. Bureau of the Census, *Current Business Reports*, series BR, *Revised Monthly Retail Sales and Inventories, January 1978 through December 1987*, (BR-13-875).

NO. 1331. RETAIL TRADE—MERCHANDISE INVENTORIES AND SALES-INVENTORY RATIOS, BY KIND OF BUSINESS: 1980 TO 1987

[As of Dec. 31. Includes warehouses. See headnote, table 1328]

SIC ¹ code	KIND OF BUSINESS	INVENTORIES AT COST ² (bil. dol.)				SALES-INVENTORY RATIOS ³			
		1980	1985	1986	1987	1980	1985	1986	1987
	Total.....	117.8	176.2	180.5	205.1	8.1	7.8	8.0	7.4
	Total (excluding automotive dealers).....	92.1	130.3	135.0	147.4	8.6	8.2	8.3	8.0
	Durable goods stores ⁴	55.5	87.8	89.8	106.7	5.4	5.7	6.0	5.2
55 exc. 554	Automotive dealers.....	25.8	45.9	45.5	57.7	6.4	6.5	7.0	5.7
551,2,5,6,7,9	Motor vehicle and misc. automotive dealers.....	22.1	41.1	40.8	52.9	6.8	6.7	7.2	5.7
551,2	Motor vehicle dealers.....	19.8	37.4	35.9	(NA)	7.0	6.9	7.5	(NA)
551	Motor vehicle dealers (franchised).....	19.0	36.0	35.2	(NA)	6.8	6.9	7.5	(NA)
553	Automotive and home supply stores.....	3.6	4.8	4.8	4.9	5.1	5.4	5.4	5.7
52	Building materials, hardware, garden supplies, mobile home dealers.....	9.3	13.0	13.3	14.5	5.5	5.4	5.7	5.4
521,3,5	Building materials, supply, hardware stores.....	7.9	11.2	11.7	(NA)	5.5	5.4	5.7	(NA)
521,3	Building materials and supply stores.....	5.7	8.1	8.4	(NA)	6.1	6.0	6.4	(NA)
525	Hardware stores.....	2.2	3.1	3.2	(NA)	3.8	3.8	3.8	(NA)
57	Furniture, home furnishings, equipment stores ⁴	9.1	14.3	15.2	16.9	4.9	5.0	5.3	5.0
571	Furniture, home furnishings.....	5.2	7.0	7.3	(NA)	5.0	5.4	5.7	(NA)
5712	Furniture stores.....	3.9	4.8	5.0	(NA)	4.6	4.9	5.1	(NA)
5722,32	Household appliance, radio, TV.....	2.8	6.1	6.5	(NA)	5.0	4.8	5.2	(NA)
5722	Household appliance stores.....	1.0	1.5	1.8	(NA)	5.7	5.9	5.8	(NA)
5944	Jewelry stores.....	3.6	4.4	4.5	(NA)	2.3	2.4	2.5	(NA)
	Nondurable goods stores ⁴	62.4	88.4	90.7	98.4	10.5	9.8	9.9	9.7
56	Apparel and accessory stores ⁴	10.6	14.5	14.6	17.5	4.8	4.8	5.1	4.5
561	Men's, boys' clothing, furnishings.....	1.9	2.2	2.2	(NA)	4.0	4.0	4.2	(NA)
562	Women's ready-to-wear stores.....	2.5	3.9	4.1	(NA)	6.4	6.2	6.5	(NA)
565	Family clothing stores.....	2.3	3.4	3.5	(NA)	4.8	4.5	5.1	(NA)
566	Shoe stores.....	2.8	3.1	3.1	(NA)	3.8	4.1	4.3	(NA)
591	Drug and proprietary stores.....	5.6	8.8	9.8	10.2	5.6	5.4	5.3	5.5
58	Eating and drinking places.....	2.0	3.3	3.5	(NA)	44.2	37.7	38.4	(NA)
54	Food stores.....	13.6	19.7	20.0	20.6	16.2	14.7	15.1	15.3
541	Grocery stores.....	13.0	18.9	19.2	19.7	15.8	14.4	14.8	15.0
554	Gasoline service stations.....	3.0	3.4	3.0	3.1	31.7	32.3	32.4	33.1
53	General merchandise group stores.....	20.4	30.6	31.3	33.4	5.2	5.1	5.3	5.3
531,9	Dept. stores, misc. general merchandise stores.....	18.4	28.3	29.2	(NA)	5.4	5.2	5.4	(NA)
531	Department stores.....	15.4	23.8	24.6	26.0	5.6	5.4	5.6	5.6
533	Variety stores.....	2.0	2.3	2.1	(NA)	3.9	4.0	3.9	(NA)
592	Liquor stores.....	2.0	2.3	2.3	(NA)	8.4	8.4	8.5	(NA)

NA Not available. ¹ Standard Industrial Classification; see text, section 13. ² Excludes supplies and equipment used in store and warehouse operations that are not for resale. Not adjusted for seasonal variation. ³ Relates annual sales to year-end inventories. ⁴ Includes kinds of businesses not shown separately.

Source: U.S. Bureau of the Census, *Current Business Reports*, series BR, *Annual* and *Monthly Retail Trade Reports*.

Domestic Trade and Services

NO. 1332. RETAIL FOODSTORES—NUMBER AND SALES, BY TYPE: 1972 TO 1987

TYPE OF FOODSTORE	NUMBER (1,000)					SALES ² (bil. dol.)					PERCENT DISTRIBUTION			
	1972	1980	1985 ¹	1986 ¹	1987 ¹	1972	1980	1985	1986	1987	Number	Sales	1972	1986
											1972	1986	1972	1986
Total.....	267.4	245.8	238.1	236.9	235.8	99.0	220.2	289.8	301.8	314.3	100.0	100.0	100.0	100.0
Grocery stores.....	194.4	172.5	166.8	166.3	165.9	92.8	205.6	271.9	284.1	296.1	72.7	70.2	93.2	84.1
Supermarkets ³	27.2	26.3	27.3	27.0	(NA)	63.8	157.0	201.5	210.5	(NA)	10.2	11.4	64.4	68.7
Convenience stores ⁴	21.0	35.8	45.4	47.0	(NA)	4.1	18.9	33.7	32.3	(NA)	7.9	19.8	4.2	10.7
Mom and pop stores.....	146.2	110.4	94.1	92.3	(NA)	24.3	29.7	36.7	41.3	(NA)	54.6	39.0	24.5	13.7
Specialized food stores ⁵	73.0	73.3	71.3	70.6	69.9	6.8	14.6	16.7	17.6	18.2	27.3	28.8	6.9	5.8

NA Not available. ¹Estimated. ²Includes nonfood items; 1972 data include sales taxes. ³A grocery store, primarily self-service in operation, providing a full range of departments, and having at least \$2.5 million in annual sales in 1985 dollars.

⁴A small grocery store selling a limited variety of food and nonfood products, typically open extended hours. ⁵Primarily engaged in the retail sale of a single food category such as meat and seafood stores and retail bakeries.

NO. 1333. SUPERMARKETS—NUMBER AND SALES, BY TYPE OF FORMAT: 1980 TO 1986

[For definition of supermarket, see footnote 3, table 1332]

SUPERMARKET FORMAT	NUMBER			SALES (bil. dol.)			PERCENT DISTRIBUTION			
	1980	1984	1986	1980	1984	1986	Number	Sales	1980	1986
							1980	1986	1980	1986
Supermarkets, total.....	26,321	26,947	27,005	157.0	192.8	210.5	100.0	100.0	100.0	100.0
Conventional.....	21,009	17,844	17,189	114.7	95.8	99.8	79.8	63.6	73.1	47.4
Superstore ¹	3,150	4,608	4,994	27.8	54.6	57.9	12.0	18.5	17.7	27.5
Warehouse ²	1,670	3,584	3,332	6.6	22.9	25.9	6.3	12.3	4.2	12.3
Combination food and drug ³	475	943	1,135	6.3	15.4	16.8	1.8	4.2	4.0	8.0
Supervarehouse ⁴	7	108	297	1.6	3.3	6.7	(2)	1.1	1.0	3.2
Hypermarket ⁵	10	60	80	(NA)	.8	3.4	(Z)	.3	(NA)	1.6

NA Not available. ²Less than .05 percent. ¹Contains greater variety of products than conventional supermarkets, including specialty and service departments, and considerable nonfood (general merchandise) products. ²Contains limited product variety and fewer services provided, incorporating case (of stocking and shelving practices). ³Contains a pharmacy, a nonprescription drug department, and a greater variety of health and beauty aids than that carried by conventional supermarkets.

⁴A larger warehouse store that offers expanded product variety and often service meat, deli, or seafood departments. ⁵A very large store offering a greater variety of general merchandise—like clothes, hardware, and seasonal goods—and personal care products than other grocery stores.

Source of tables 1332 and 1333: U.S. Dept. of Agriculture, Economic Research Service, *Food Marketing Review*, annual.

NO. 1334. COMMERCIAL AND INSTITUTIONAL GROUPS—FOOD AND DRINK SALES: 1970 TO 1988

[Excludes military. Data refer to sales to consumers of food and alcoholic beverages. Sales are estimated. For details, see source.]

TYPE OF GROUP	Number 1986	SALES (mil. dol.)							
		1970	1980	1983	1984	1985	1986	1987 ¹	1988 ¹
Total.....	625,031	42,199	119,004	151,355	164,126	173,889	186,171	198,384	212,476
Commercial foodservice ²	453,762	34,829	101,529	131,268	143,265	152,864	164,510	176,107	189,331
Eating places ²	270,698	21,614	72,276	95,267	104,521	111,598	120,124	128,568	138,211
Restaurants, luncheonettes.....	128,514	13,348	39,307	50,530	55,112	58,444	62,901	66,143	70,574
Limited menu restaurants ⁴	128,125	6,190	26,699	39,494	43,719	47,191	51,485	55,672	60,425
Bars and taverns ⁵	32,308	5,008	7,785	8,157	8,255	8,428	8,976	9,212	9,626
Food contractors ³	9,026	2,442	6,818	6,242	8,907	9,460	10,095	10,774	11,550
Manufacturing and industrial plants.....	(NA)	915	2,121	2,394	2,616	2,721	2,824	2,986	3,132
Colleges and universities.....	(NA)	496	1,140	1,494	1,812	1,738	1,882	2,033	2,202
Lodging places ²	26,385	2,585	6,768	9,165	10,026	10,699	11,383	12,340	13,303
Hotel restaurants.....	15,704	1,554	4,964	7,302	8,110	8,748	9,404	10,280	11,154
Retail hosts ²	105,650	1,652	3,264	4,890	5,395	6,198	7,052	7,953	8,907
Grocery store restaurants.....	41,867	189	830	1,554	1,958	2,466	2,988	(NA)	(NA)
Gasoline service stations.....	30,490	109	492	860	1,048	1,291	1,527	(NA)	(NA)
Recreation and sports.....	6,607	514	1,452	1,822	1,906	1,957	2,055	2,149	2,270
Institutional foodservice ²	171,268	7,370	17,475	20,089	20,881	21,025	21,861	22,277	23,145
Employee foodservice.....	8,212	688	1,635	1,787	1,904	1,971	1,976	2,021	2,113
Industrial and commercial organizations.....	3,573	581	1,377	1,605	1,630	1,682	1,694	(NA)	(NA)
Educational foodservice.....	94,484	2,102	4,610	5,509	5,749	5,979	6,253	6,486	6,716
Elementary and secondary schools.....	91,778	1,153	2,912	2,577	2,780	2,919	3,060	3,189	3,295
Hospitals.....	6,791	2,991	6,688	7,375	7,391	7,104	7,170	7,196	7,368
Miscellaneous ²	28,326	646	1,521	1,885	1,991	2,077	2,197	2,221	2,348
Clubs.....	10,310	525	1,058	1,391	1,467	1,537	1,620	(NA)	(NA)

NA Not available. ¹Projection. ²Includes other types of groups, not shown separately. ³Data for establishments with payroll. ⁴Fast-food restaurants. ⁵For establishments serving food.

Source: National Restaurant Association, Washington, DC, *Foodservice Numbers: A Statistical Digest for the Foodservice Industry*, annual, and 1988 *National Restaurant Association Foodservice Industry Forecast*, December 1987. (Copyright.)

Shopping Center Characteristics

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NO. 1335. SHOPPING CENTERS—NUMBER, GROSS LEASABLE AREA, AND RETAIL SALES, BY GROSS LEASABLE AREA: 1986 AND 1987

[As of December 31. A shopping center is a group of architecturally unified commercial establishments built on a site which is planned, developed, owned and managed as an operating unit related in its location, size, and type of shops to the trade area that the unit serves. The unit provides on-site parking in definite relationship to the types and total size of the stores. The data base attempts to include all centers with 30 or more stores. Estimates are based on a sample of data available on shopping center properties available; for details, contact source]

YEAR	Total	GROSS LEASABLE AREA (sq. ft.)					
		Less than 100,001	100,001–200,000	200,001–400,000	400,001–800,000	800,001–1,000,000	More than 1 million
NUMBER							
1986	28,496	18,230	6,692	2,083	918	261	312
1987	30,641	19,879	7,195	2,231	954	263	319
Percent distribution.....	100.0	84.2	23.5	7.3	3.1	.9	1.0
Percent change, 1986–1987	7.5	7.9	7.5	7.1	3.9	.8	2.2
GROSS LEASABLE AREA							
1986 (mil. sq. ft.)	3,523	901	917	555	522	234	393
1987 (mil. sq. ft.)	3,723	967	984	593	539	236	403
Percent distribution.....	100.0	26.0	26.4	15.9	14.5	6.3	10.8
Percent change, 1986–1987	5.7	7.3	7.4	7.0	3.3	.7	2.5
RETAIL SALES							
1986 (bil. dol.)	556.5	160.3	140.4	84.8	73.8	36.2	60.8
1987 (bil. dol.)	602.3	174.5	153.0	92.5	78.4	38.5	65.4
Percent distribution.....	100.0	29.0	25.4	15.3	13.0	6.4	10.9
Percent change, 1986–1987	8.2	8.9	8.9	9.0	6.2	6.2	7.6

Source: National Research Bureau, 310 South Michigan Avenue, Chicago, IL 60604. Data published by Communication Channels Inc., Atlanta, GA, in *Shopping Center World*, February 1988. (Copyright.)

NO. 1336. SHOPPING CENTERS—NUMBER, GROSS LEASABLE AREA, AND RETAIL SALES BY STATE: 1987

[See headnote, table 1335]

STATE	Number	Gross leasable area (mil. sq. ft.)	Retail sales (mil. dol.)	PERCENT CHANGE, 1986–1987			STATE	Number	Gross leasable area (mil. sq. ft.)	Retail sales (mil. dol.)	PERCENT CHANGE, 1986–1987		
				Number	Gross leasable area	Retail sales					Number	Gross leasable area	Retail sales
U.S.	30,641	3,723.0	602,294	7.5	5.7	8.2	S.A.—Con.	835	110.7	17,762	9.3	8.5	10.5
N.E.	1,814	196.5	31,595	6.1	4.8	6.6	VA.....	125	16.2	2,548	8.8	9.5	10.9
ME.....	149	13.8	2,286	5.7	.9	3.6	WV.....	97	103.5	16,935	15.6	11.8	14.5
NH.....	130	13.1	2,153	10.2	4.0	6.8	NC.....	555	56.3	9,258	8.2	7.1	10.1
VT.....	82	5.6	934	3.8	1.9	3.8	SC.....	1,065	107.7	17,903	10.3	8.7	11.6
MA.....	750	84.4	13,595	5.3	3.1	5.0	GA.....	2,368	298.4	49,474	11.2	8.8	12.2
RI.....	160	14.0	2,250	8.1	5.3	7.4	FL.....	501	54.3	8,712	6.6	5.2	7.3
CT.....	543	65.6	10,436	6.1	8.2	9.5	E.S.C.	2,154	232.4	37,498	6.7	6.3	8.3
M.L.	3,008	431.4	68,186	6.5	5.1	7.2	KY.....	787	85.5	13,785	9.2	9.5	11.2
NY.....	1,228	171.6	27,314	4.6	2.6	5.2	TN.....	524	60.4	9,671	5.4	6.0	6.8
NJ.....	677	101.5	16,198	6.8	8.9	11.0	AL.....	342	32.2	5,320	3.6	2.7	5.4
PA.....	1,103	158.3	24,674	8.5	5.5	7.0	MS.....	4,014	452.3	74,466	4.3	3.3	6.1
E.N.C.	4,309	568.3	89,793	8.2	4.7	6.8	AR.....	311	29.1	4,730	2.6	1.7	3.8
OH.....	1,158	167.9	26,215	6.6	3.5	5.3	LA.....	590	71.3	11,530	2.6	2.4	4.8
IN.....	689	85.0	13,565	4.7	4.2	6.5	OK.....	503	51.1	8,355	3.1	1.8	4.6
IL.....	1,271	159.9	25,382	12.5	6.4	8.6	TX.....	2,610	300.8	49,851	5.2	3.9	6.9
MI.....	730	100.3	15,788	6.6	4.4	6.1	W.S.C.	2,158	248.1	40,984	7.7	4.9	8.3
WI.....	461	55.1	8,842	9.2	4.9	8.2	MT.....	74	7.5	1,231	4.2	2.2	3.3
W.N.C.	1,960	249.7	39,829	7.0	4.2	6.9	ID.....	101	12.7	2,046	5.2	1.7	5.1
MN.....	366	51.8	8,303	6.7	3.0	6.3	W.Y.	43	5.4	858	4.9	3.0	4.0
IA.....	229	30.6	4,835	7.0	3.4	6.4	CO.....	616	77.8	12,660	5.3	4.3	7.0
MO.....	698	87.3	13,889	7.2	5.1	7.6	NM.....	228	22.4	3,709	4.6	3.7	6.4
ND.....	62	8.2	1,297	6.9	3.1	6.2	AZ.....	741	77.3	13,102	9.3	5.6	9.8
SD.....	36	5.0	789	12.5	5.7	9.7	UT.....	153	23.9	3,851	10.1	4.3	8.2
NE.....	176	22.5	3,582	8.6	4.4	7.4	N.V.	202	21.1	3,528	15.4	12.2	15.7
KS.....	393	44.3	7,125	5.7	4.2	6.5	Pac.	4,535	538.9	88,130	7.1	6.0	8.7
S.A.	6,689	805.4	131,814	10.6	8.7	11.5	WA.....	500	63.8	10,172	8.9	8.0	10.2
DE.....	89	15.2	2,415	4.7	3.1	7.2	OR.....	306	34.6	5,548	5.5	5.8	7.4
MD.....	624	90.8	14,453	7.8	7.7	9.7	CA.....	3,561	421.8	69,283	7.1	5.8	8.6
DC.....	51	6.6	1,066	4.1	—	2.9	AK.....	45	5.9	1,003	7.1	9.0	13.0
							H.I.	123	12.7	2,124	5.1	3.1	6.5

— Represents zero.

Source: National Research Bureau, 310 South Michigan Avenue, Chicago, IL 60604. Data published by Communication Channels Inc., Atlanta, GA, in *Shopping Center World*, February 1988. (Copyright.)

Domestic Trade and Services

NO. 1337. RETAIL SALES—BY TYPE OF

[In millions of dollars.]

DIVISION AND STATE	TOTAL ¹		FOOD STORES				GENERAL MERCHANDISE STORES				AUTOMOTIVE DEALERS	
			Total		Supermarkets		Total		Department stores		1982	1987
	1982	1987	1982	1987	1982	1987	1982	1987	1982	1987	1982	1987
U.S.	1,065,918	1,545,097	246,458	321,934	231,000	302,727	120,528	180,563	99,185	150,506	193,896	338,082
N.E.	62,093	102,981	13,829	20,266	12,465	18,624	8,174	10,870	5,179	9,038	10,359	22,254
ME	5,332	8,943	1,311	1,912	1,247	1,828	465	779	341	583	933	1,969
NH	5,354	9,725	1,278	2,084	1,209	1,984	527	1,034	415	820	962	2,154
VT	2,801	4,344	812	924	585	897	173	282	120	199	473	1,014
MA	28,816	46,908	6,006	8,895	5,371	7,992	3,000	4,963	2,538	4,238	4,651	9,980
RI	4,163	6,751	923	1,868	802	1,193	448	789	387	666	633	1,337
CT	15,829	26,310	3,500	5,070	3,251	4,730	1,561	2,843	1,378	2,534	2,706	5,800
M.A.	158,349	236,256	38,078	52,894	34,220	47,466	17,381	25,630	14,742	22,075	24,938	48,106
NY	72,267	108,682	17,446	24,789	15,361	21,885	7,812	11,550	6,296	9,730	9,955	18,520
N.J.	38,307	54,844	8,610	12,012	7,839	10,986	3,637	5,496	3,163	4,847	6,206	12,306
PA	50,776	72,730	12,022	18,883	11,020	14,595	6,131	8,584	5,283	7,498	8,774	16,280
E.N.C.	180,558	255,551	40,116	48,999	37,458	45,930	22,119	32,680	19,081	28,450	32,385	57,696
OH	46,815	65,173	11,145	13,358	10,447	12,554	6,155	9,146	5,360	8,028	7,981	14,242
IN	23,724	34,272	5,298	8,600	5,023	6,287	2,678	3,981	2,252	3,357	4,410	8,153
IL	50,747	71,233	10,561	13,058	8,844	12,221	5,921	8,535	5,061	7,935	8,959	15,711
MI	38,216	57,408	8,518	10,456	7,835	9,651	4,944	7,448	4,497	8,768	7,521	14,473
WI	20,554	27,467	4,594	5,527	4,307	5,207	2,420	3,570	1,970	2,912	3,494	6,119
W.N.C.	78,094	109,600	18,879	21,780	16,034	20,777	9,103	14,389	7,399	11,864	14,940	25,723
MN	19,599	28,903	3,922	5,326	3,875	5,012	2,259	3,901	1,894	3,312	3,542	6,417
IA	12,646	16,425	3,012	3,615	2,877	3,470	1,366	2,080	1,066	1,630	2,374	3,752
MO	21,655	37,998	4,888	6,393	4,658	6,117	2,790	4,527	2,402	3,941	4,083	7,664
ND	3,367	4,337	579	746	547	708	349	539	285	446	829	1,243
SD	2,989	4,106	617	805	586	769	256	431	189	318	569	973
NE	6,995	9,473	1,459	1,839	1,387	1,757	797	1,130	598	839	1,321	2,152
KS	10,842	14,357	2,402	3,056	2,804	2,944	1,286	1,781	966	1,377	2,222	3,502
S.A.	176,375	272,740	41,345	58,094	39,223	53,485	19,521	31,872	15,412	25,590	33,357	62,957
DE	3,131	4,652	679	871	620	797	418	650	360	584	525	1,022
MD	20,983	32,241	4,696	6,142	4,344	5,705	2,458	3,553	2,117	3,095	3,781	7,457
DC	2,654	3,403	495	601	450	548	225	270	189	232	127	186
VA	24,706	40,131	5,843	8,199	5,580	7,850	2,981	5,022	2,237	3,963	4,599	9,075
WV	7,621	10,247	2,022	2,418	1,864	2,344	1,006	1,461	767	1,178	1,351	2,261
N.C.	25,005	37,619	6,207	8,278	6,010	8,034	2,508	4,273	1,668	2,972	4,779	8,468
SC	12,488	19,006	3,190	4,473	3,099	4,366	1,244	2,013	905	1,494	2,218	3,978
GA	24,408	39,656	5,582	8,151	5,368	7,866	2,784	4,746	2,200	3,868	4,628	8,176
FL	55,469	85,791	12,631	16,983	11,799	15,926	6,017	9,884	4,938	8,226	11,348	21,344
E.S.C.	57,701	81,880	14,480	16,724	13,973	16,228	6,959	10,724	5,115	8,084	11,003	19,981
KY	14,572	20,622	3,685	4,331	3,506	4,160	1,757	2,580	1,369	2,064	2,511	4,526
TN	19,605	28,852	4,720	5,480	4,567	5,325	2,983	3,914	1,828	3,085	3,832	7,327
AL	14,480	20,161	3,708	4,141	3,595	4,033	1,863	2,473	1,190	1,811	2,874	5,146
MS	9,044	12,445	2,367	2,772	2,304	2,710	1,177	1,757	728	1,124	1,766	2,982
W.S.C.	127,444	183,317	30,030	38,044	28,877	36,748	14,440	19,149	11,419	15,446	27,341	35,407
AR	9,114	12,130	2,130	2,852	2,065	2,778	1,154	1,612	967	1,363	1,979	2,474
LA	19,886	25,161	5,039	6,465	4,854	6,245	2,328	2,918	1,733	2,336	3,770	4,833
OK	16,071	19,473	3,805	4,264	3,683	4,157	1,812	2,798	1,294	1,645	3,713	4,418
TX	82,274	106,553	18,056	24,473	18,265	23,568	9,148	12,421	7,424	10,203	17,880	23,882
Mt.	59,288	80,943	14,088	18,352	13,539	17,718	5,859	9,069	4,821	7,219	11,253	18,024
MT	3,955	4,654	955	1,070	918	1,033	308	443	199	294	748	902
ID	4,060	5,253	1,085	1,291	1,037	1,282	310	485	203	311	815	1,179
WY	2,819	3,809	636	780	617	760	191	325	87	151	498	745
CO	16,581	22,021	3,764	4,802	3,612	4,829	1,666	2,655	1,423	2,284	3,150	4,100
NM	6,319	8,561	1,523	1,938	1,455	1,858	587	899	413	645	1,274	1,810
AZ	13,894	20,435	3,823	4,775	3,292	4,613	1,491	2,297	1,186	1,848	2,620	4,003
UT	6,327	8,183	1,513	1,961	1,448	1,885	711	1,036	579	838	1,196	1,554
NV	5,343	8,027	1,207	1,737	1,180	1,678	597	949	580	848	957	1,631
Pac.	165,008	241,829	37,836	48,981	35,212	45,771	18,972	26,386	16,219	22,740	26,340	49,932
WA	20,008	27,613	4,896	6,126	4,569	5,867	2,178	2,966	1,838	2,519	3,250	5,576
OR	12,634	16,183	2,738	3,233	2,597	3,081	1,787	2,401	1,394	1,890	2,258	3,432
CA	123,946	186,413	28,933	37,285	26,285	34,688	14,012	19,884	12,327	17,411	21,981	39,218
AK	3,227	4,227	709	939	885	910	335	498	216	333	419	660
HI	5,193	7,393	1,101	1,398	976	1,245	659	857	445	587	551	1,047

¹ Includes other types of stores, not shown separately. ² Includes hardware dealers. ³ Includes home furnishings stores.

Retail Sales

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STORE AND STATE: 1982 AND 1987

Data are estimates]

EATING AND DRINKING PLACES		GASOLINE SERVICE STATIONS		APPAREL AND ACCESSORIES STORES		BUILDING MATERIALS DEALERS ²		FURNITURE AND APPLIANCE STORES ³				DIVISION AND STATE	
1982	1987	1982	1987	1982	1987	1982	1987	Total		Furniture			
								1982	1987	1982	1987		
103,982	150,554	97,840	101,940	57,838	81,110	51,146	82,183	47,141	84,022	17,951	27,073	U.S.	
6,046	10,748	5,299	6,085	3,540	5,335	2,850	5,603	2,406	4,647	873	1,431	N.E.	
425	786	406	550	216	318	311	594	144	264	57	57	ME	
428	788	411	522	249	417	337	782	200	447	60	116	NH	
233	409	226	282	109	159	176	393	81	163	29	49	VT	
3,108	5,439	2,387	2,610	1,793	2,595	1,176	2,322	1,170	2,128	447	696	MA	
404	720	380	446	237	370	176	318	145	287	50	83	RI	
1,457	2,606	1,489	1,675	938	1,476	675	1,274	666	1,358	230	397	CT	
15,096	21,777	12,328	12,171	10,341	15,325	6,097	10,465	7,352	14,539	2,570	4,282	M.A.	
7,420	10,995	4,625	4,581	5,295	7,866	2,591	4,395	3,608	6,963	1,242	2,011	NY	
3,227	4,518	3,251	3,301	2,287	3,541	1,361	2,280	1,743	3,601	585	1,019	NJ	
4,449	6,264	4,452	4,289	2,759	3,918	2,145	3,810	2,002	3,975	744	1,252	PA	
18,183	24,823	19,514	19,457	9,428	12,796	7,982	13,435	7,473	13,314	2,717	4,075	E.N.C.	
4,683	6,484	5,104	5,324	1,956	2,704	1,837	2,999	1,808	3,166	692	1,022	OH	
2,323	3,186	2,790	3,008	1,079	1,638	1,166	1,939	902	1,636	338	524	IN	
5,138	6,831	4,716	4,807	3,291	4,286	2,143	3,486	2,203	3,872	829	1,233	IL	
3,819	5,371	4,069	4,405	2,249	2,977	1,790	3,417	1,683	3,132	577	900	MI	
2,211	2,951	2,171	2,113	851	1,181	1,046	1,594	877	1,518	281	396	WI	
7,183	10,201	8,436	8,933	3,773	4,916	4,657	6,463	3,143	4,685	1,282	1,652	W.N.C.	
1,801	2,701	2,108	2,354	922	1,327	1,221	1,836	776	1,205	292	385	MN	
1,137	1,502	1,416	1,432	618	776	798	982	485	692	206	256	IA	
2,037	3,012	2,299	2,581	1,015	1,380	1,100	1,853	822	1,250	308	397	MO	
291	347	371	354	174	193	246	296	138	180	67	77	ND	
275	385	370	357	147	189	204	282	114	162	53	66	SD	
687	977	789	768	352	440	449	620	342	535	185	264	NE	
956	1,277	1,104	1,087	544	631	638	834	467	661	171	207	KS	
16,667	25,469	16,282	17,952	9,227	12,723	8,757	14,144	8,299	15,878	3,448	5,655	S.A.	
266	387	274	282	169	211	158	253	136	258	52	84	DE	
1,944	2,904	2,037	2,104	1,126	1,639	791	1,560	951	1,802	335	521	MD	
563	740	185	158	241	298	40	48	132	198	58	74	DC	
2,152	3,435	2,451	2,656	1,245	1,873	1,083	2,012	1,188	2,497	499	921	VA	
544	721	738	863	338	392	455	601	291	435	140	183	WV	
2,172	3,334	2,006	2,326	1,390	1,879	1,523	2,275	1,219	2,177	584	903	NC	
1,114	1,751	1,250	1,367	692	979	728	1,143	585	1,070	278	444	SC	
2,293	3,755	2,457	2,794	1,261	1,782	1,319	2,109	1,050	2,134	441	767	GA	
5,619	8,442	4,883	5,402	2,766	3,675	2,661	4,143	2,767	5,307	1,061	1,758	FL	
4,741	6,663	5,646	6,038	3,836	3,641	2,893	3,861	2,288	4,192	1,055	1,679	E.S.C.	
1,277	1,877	1,628	1,774	642	790	758	1,022	538	1,013	241	391	KY	
1,708	2,371	2,048	2,145	989	1,318	900	1,252	825	1,557	361	585	TN	
1,126	1,563	1,237	1,308	857	1,012	753	1,021	583	1,029	282	435	AL	
630	842	733	811	449	521	482	566	339	593	172	268	MS	
11,410	15,059	10,410	9,695	7,446	8,922	6,963	11,422	5,717	8,146	2,350	2,860	W.S.C.	
657	887	808	819	476	598	486	952	338	165	226	226	AR	
1,843	2,284	1,601	1,563	1,147	1,358	1,171	1,811	932	1,302	404	492	LA	
1,440	1,816	1,174	1,133	958	1,152	945	1,494	730	1,067	303	377	OK	
7,470	10,072	6,827	6,180	4,864	5,814	4,361	7,225	3,717	5,257	1,478	1,765	TX	
6,059	8,059	5,874	6,136	2,752	3,444	3,429	5,329	2,672	4,365	1,038	1,447	Mt.	
424	464	403	352	201	231	272	354	173	260	61	79	MT	
375	456	368	418	179	190	263	370	173	254	80	108	ID	
284	375	407	449	139	172	201	289	98	153	36	48	WY	
1,854	2,441	1,472	1,394	785	992	966	1,559	796	1,295	276	378	CO	
629	857	632	611	328	400	398	620	251	393	115	156	NM	
1,428	2,072	1,342	1,553	558	723	695	1,170	657	1,132	246	356	AZ	
511	634	675	670	297	368	369	554	315	496	152	215	UT	
553	760	575	689	264	368	265	413	209	382	71	107	NV	
18,596	27,765	14,411	15,473	8,396	14,008	7,518	11,421	7,793	14,256	2,617	3,992	Pac.	
2,268	3,091	1,737	1,717	986	1,580	1,101	1,533	845	1,391	297	413	WA	
1,353	1,728	1,147	1,122	601	800	565	721	517	749	173	209	OR	
13,684	21,055	10,901	12,034	6,297	10,816	5,354	8,616	6,131	11,714	2,047	3,255	CA	
411	539	215	188	130	178	344	337	133	170	42	44	AK	
880	1,352	411	412	383	634	154	214	167	232	59	71	HI	

Source: Market Statistics, New York, NY, *The Survey of Buying Power Data Service*, annual (copyright).

Domestic Trade and Services

No. 1338. DOMESTIC AND INTERNATIONAL FRANCHISING—SUMMARY: 1970 TO 1988

[Franchising is a form of marketing or distribution in which a parent company customarily grants an individual or a company the right, or privilege, to do business in a prescribed manner over a certain period of time in a specified place. The parent company is termed the franchisor; the receiver of the privilege the franchisee; and the right, or privilege, the franchise.]

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987 ¹	1988 ¹
DOMESTIC²											
Number of franchised establishments											
Company-owned ³	1,000	396	435	442	439	442	444	455	462	479	509
Franchisee-owned	1,000	72	81	85	87	86	87	86	88	89	92
Total	1,000	324	354	357	352	355	357	369	374	390	417
Sales of products and services	Bil. dol.	120	191	336	376	423	492	543	569	599	640
Company-owned ³	Bil. dol.	23	29	47	55	59	64	68	85	90	97
Franchisee-owned	Bil. dol.	96	162	289	321	364	428	475	484	509	543
Average sales per establishment	\$1,000	302	439	780	856	958	1,108	1,193	1,231	1,251	1,256
Employment	1,000	(NA)	3,511	4,668	4,927	5,165	5,671	6,283	6,501	(NA)	(NA)
INTERNATIONAL											
U.S. companies operating foreign outlets	Number	4,156	222	279	295	305	328	342	354	(NA)	(NA)
Foreign outlets	1,000	4.34	11.0	20.4	23.5	25.7	27.0	30.2	31.6	(NA)	(NA)

NA Not available. ¹Estimated by respondents to annual survey of franchisors. ²Excludes foreign outlets of U.S. companies. ³Represents establishments owned by the parent company.

* 1971 data.

No. 1339. DOMESTIC FRANCHISING—NUMBER OF ESTABLISHMENTS AND SALES, BY KIND OF FRANCHISED BUSINESS: 1970 TO 1988

[See headnote, table 1338, for definition of franchising. Excludes foreign outlets of U.S. companies]

KIND OF FRANCHISED BUSINESS	NUMBER OF ESTABLISHMENTS (1,000)							SALES (bil. dol.)						
	1970	1975	1980	1985	1986	1987 ¹	1988 ¹	1970	1975	1980	1985	1986	1987 ¹	1988 ¹
All franchising, total	396.3	434.5	442.4	455.2	462.1	479.1	509.3	119.8	190.9	336.2	543.0	569.1	599.4	639.6
Auto and truck dealers ²	37.2	31.8	29.4	27.5	27.6	27.6	27.8	58.8	94.5	143.9	282.6	307.3	319.7	335.4
Percent	9.4	7.3	6.6	6.0	6.0	5.8	5.5	49.1	49.5	42.8	52.0	54.0	53.3	52.4
Restaurants (all types)	32.6	43.0	60.0	73.9	78.2	83.3	90.8	4.6	12.3	27.9	47.7	52.3	56.8	63.2
Percent	8.2	9.9	13.6	16.2	16.9	17.4	17.8	3.8	6.4	8.3	8.8	9.2	9.5	9.9
Gasoline service stations ²	222.0	189.5	158.5	124.6	120.5	115.9	112.0	29.3	47.4	94.5	100.8	86.6	89.2	91.9
Percent	58.0	43.6	35.8	27.4	28.1	24.2	22.0	24.5	24.8	28.1	18.6	15.2	14.9	14.4
Retailing (nonfood)	30.7	37.2	35.2	45.1	45.5	47.8	52.9	13.1	9.0	10.5	20.6	23.1	25.4	28.5
Percent	7.7	8.6	8.0	9.9	9.8	10.0	10.4	11.0	4.7	3.1	3.8	3.7	4.2	4.5
Auto, truck rental services	3 ¹⁰ 10.7	6.5	7.3	11.2	9.5	10.0	10.6	1.2	1.5	3.1	5.7	6.2	6.5	7.0
Automotive products and services ⁴	20.4	47.5	40.2	36.5	36.7	39.3	41.5	1.9	5.0	7.1	10.7	11.3	12.3	13.7
Business aids and services	10.5	22.2	40.7	49.8	52.7	56.7	63.0	.7	1.4	6.7	12.0	13.3	14.7	16.8
Employment services	2.9	2.7	4.4	4.8	5.6	6.1	6.9	.5	.6	1.6	2.7	3.2	3.7	4.2
Tax preparation services	4.7	7.5	9.2	8.1	8.3	8.5	8.6	.1	.2	.3	.4	.5	.5	.5
Accounting, credit, collection, and general	1.1	3.5	2.4	2.1	1.9	2.0	2.2	(Z)	.2	.1	.2	.2	.2	.2
Real estate ⁵	(NA)	3.8	17.3	13.9	14.0	15.2	16.9	(NA)	.2	3.6	4.6	5.1	5.6	6.4
Printing and copying	.3	1.1	2.8	4.5	4.9	5.6	6.4	.1	.1	.4	.9	1.0	1.2	1.4
Other	1.4	3.4	4.8	16.4	18.0	19.4	22.0	.1	.2	.8	3.1	3.3	3.5	4.1
Construction, home improvement, maintenance, and cleaning	.7	10.8	14.3	17.5	18.9	21.7	25.5	.1	.6	1.5	4.1	4.6	5.2	6.2
Convenience stores	8.8	13.5	15.6	15.1	15.5	16.3	17.2	1.7	3.9	7.8	10.8	11.3	12.3	13.6
Educational products and services	4.9	1.3	3.2	8.2	8.6	9.6	10.6	.1	.2	.3	.8	.9	1.0	1.2
Equipment rental services	(3)	1.4	2.2	2.5	2.7	2.8	3.3	(3)	.2	.4	.7	.7	.7	.8
Food retailing ⁶	(NA)	11.8	15.5	18.7	18.9	20.5	23.6	(NA)	1.4	7.4	10.1	10.7	11.1	12.1
Hotels and motels ⁷	3.4	6.4	6.4	7.5	8.2	9.3	10.4	3.5	4.6	9.5	14.8	16.0	17.7	19.7
Laundry, dry cleaning services	4.1	3.2	3.4	2.3	2.3	2.2	2.6	.1	.2	.3	.3	.3	.3	.4
Recreation, entertainment, travel	2.7	3.4	4.6	7.8	7.9	8.2	8.9	.1	.2	.5	2.3	3.5	4.0	5.0
Soft drink bottlers ^{2,8}	2.7	2.4	1.9	1.4	1.2	1.1	1.1	4.1	8.2	14.4	18.3	19.7	20.9	22.1
Miscellaneous	4.8	2.7	3.6	5.5	6.1	6.8	7.7	.3	.4	.4	.9	1.3	1.5	1.9

NA Not available. Z Less than \$50 million. ¹Estimated by respondents. ²Estimated by source on basis of Bureau of the Census and trade association data. ³Equipment rental services included with auto, truck rental services. ⁴Includes some establishments with significant sales of nonautomotive products such as household appliances, garden supplies, etc.

⁵Gross commissions. ⁶Excludes convenience stores. ⁷Beginning 1975, includes campgrounds. ⁸Includes soft drinks, fruit drinks and juices, syrups, flavoring agents and bases. Excludes independent private label and contract-filler bottling companies, which accounted for 22 percent of the value of shipments of the total industry in recent years.

Source of tables 1338 and 1339: U.S. Dept. of Commerce, International Trade Administration, *Franchising in the Economy, 1986-88*.

New Car Dealerships—Wholesale Trade

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NO. 1340. FRANCHISED NEW CAR DEALERSHIPS—SUMMARY: 1970 TO 1987

[Calendar year, except as indicated]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Dealerships, total¹	Number	30,800	29,600	28,250	26,600	25,700	24,725	24,725	24,725	25,100	25,150
Handling—											
Domestic only ²	Number	22,500	18,500	11,600	10,000	14,450	14,675	14,625	12,300	7,150	8,175
Imports only ²	Number	4,500	4,600	4,550	4,550	4,000	3,950	3,875	3,925	4,425	4,750
Bolts	Number	3,800	6,500	12,050	7,250	6,100	6,225	6,800	13,525	12,225	
Sales	Bil. dol.	51.8	84.2	130.5	144.5	154.7	187.0	224.2	248.7	266.0	267.1
New cars		8,993	8,633	8,979	8,533	7,980	9,182	10,390	11,042	11,455	10,278
Used vehicles		11,283	11,281	9,717	10,187	9,940	10,805	12,289	13,026	13,215	13,144
Employment		702.9	728.0	753.7	705.1	702.3	748.8	813.8	856.5	884.2	894.6
Annual payroll	Bil. dol.	5.5	8.4	11.2	11.6	12.6	15.0	18.2	20.0	21.2	21.6
Advertising expenses	Bil. dol.	.4	.6	1.2	1.3	1.4	1.7	2.1	2.8	3.2	3.5
Inventory ³											
Domestic: ²											
Total	1,000	1,409	1,514	1,506	1,457	1,294	1,209	1,413	1,510	1,687	1,723
Days' supply	Days	60	67	71	74	71	55	55	58	63	76
Imported: ²											
Total	1,000	(NA)	407	458	427	381	280	216	271	392	566
Days' supply	Days	(NA)	80	55	52	54	34	26	30	37	59

NA Not available. ¹ At beginning of year. ² Classification based on where automobiles are produced (i.e., automobiles manufactured by foreign companies but produced in the U.S. are classified as domestic). ³ Annual average.

Source: National Automobile Dealers Association, McLean, VA, *NADA Data*, annual.

NO. 1341. WHOLESALE TRADE—SUMMARY: 1954 TO 1982

[Prior to 1958, excludes Alaska and Hawaii. Data for 1972 through 1982 not strictly comparable with prior years due to changes in Standard Industrial Classification; for details, see source. See also *Historical Statistics, Colonial Times to 1970*, series T 43-47, and T 274-279.]

ITEM	Unit	1954	1958	1963	1967	1972	1977	1982
Firms, total	1,000	(NA)	(NA)	232	233	276	289	321
Establishments, total	1,000	250	287	308	317	370	383	416
With sales of \$1,000,000 or more	1,000	(NA)	(NA)	62	75	103	152	190
Sales, all establishments	Bil. dol.	234.0	285.7	358.4	459.5	685.2	1,258.4	1,997.9
Merchant wholesalers	Bil. dol.	100.1	122.1	157.4	206.1	353.9	677.5	1,159.3
Inventories, end of year	Bil. dol.	13.0	15.0	20.1	28.1	45.7	82.3	130.7
Payroll, entire year	Bil. dol.	10.9	13.2	18.1	23.9	36.9	58.3	95.2
Paid employees, Mar. 12 workweek ¹	1,000	2,555	2,808	3,089	3,519	4,026	4,397	4,985
Active proprietors of unincorporated businesses	1,000	150	158	133	122	(NA)	(NA)	(NA)

NA Not available. ¹ 1954-1963 data for workweek including Nov. 15.

Sources: U.S. Bureau of the Census, *U.S. Census of Business*, 1954, vol. III; 1958, vol. III; 1963, vol. IV; 1967, vol. III; and *Census of Wholesale Trade*: 1972, vol. I; 1977, WC 77-A-52 and 1982, WC 82-A-52.

NO. 1342. WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1977 AND 1982

[See *Historical Statistics, Colonial Times to 1970*, series T 274-287 and T 352-369 for similar but not comparable data]

TYPE OF OPERATION AND KIND OF BUSINESS	ESTABLISHMENTS (1,000)		SALES (mil. dol.)		ANNUAL PAYROLL (mil. dol.)		PAID EMPLOYEES ¹ (1,000)	
	1977	1982	1977	1982	1977	1982	1977	1982
Wholesale trade	382.8	415.8	1,258,400	1,997,895	58,290	95,209	4,397	4,985
Merchant wholesalers	307.2	337.9	677,550	1,159,334	42,067	69,936	3,368	3,918
Other operating types	75.6	77.9	580,851	638,561	16,223	25,273	1,029	1,067
Durable goods	226.2	256.1	608,756	881,212	34,988	57,368	2,539	2,913
Motor vehicles, automotive equipment	38.9	39.5	147,112	187,807	5,148	7,524	423	433
Furniture, home furnishings	11.1	12.5	22,032	32,452	1,445	2,367	110	126
Lumber, construction materials	15.7	17.0	46,179	50,694	2,502	3,429	180	184
Sporting, recreational, photographic goods ²	6.6	7.3	16,521	26,980	1,024	1,646	77	85
Metals and minerals, except petroleum	9.4	10.1	80,298	102,690	2,178	3,559	133	148
Electrical goods	24.9	23.2	89,999	120,062	3,922	7,462	277	367
Hardware, plumbing, heating equipment	18.6	20.8	30,605	43,529	2,576	4,051	194	217
Machinery, equipment, supplies	84.0	98.2	165,057	263,309	14,350	24,804	986	1,192
Miscellaneous	17.1	20.5	30,952	53,889	1,852	2,726	180	171
Nondurable goods	156.6	159.7	649,644	1,116,683	23,292	37,841	1,858	2,072
Paper, paper products	11.7	13.9	32,509	53,493	2,103	3,586	149	187
Drugs, drug proprietaries ³	3.6	3.9	19,445	33,987	1,148	1,975	89	106
Apparel, piece goods, notions	13.0	14.3	39,895	55,897	1,830	2,897	131	144
Groceries and related products	38.0	38.5	182,905	288,659	7,469	12,261	602	674
Farm-product raw materials	14.8	13.9	110,332	153,419	1,273	1,839	135	136
Chemicals, allied products	8.5	10.7	51,661	76,103	1,603	2,902	100	124
Petroleum, petroleum products	22.6	18.7	116,780	296,995	2,249	3,433	179	188
Beer, wines, distilled alcoholic beverages	6.7	6.4	26,979	42,122	1,841	3,081	122	141
Miscellaneous	37.8	39.4	69,130	116,008	3,778	5,849	351	372

¹ For pay period including March 12. ² Includes toys, hobby goods, and supplies. ³ Includes druggists sundries.

Source: U.S. Bureau of the Census, *Census of Wholesale Trade*, 1977, Geographic Area Series, WC 77-A-52, and 1982, Geographic Area Series, WC 82-A-52.

Domestic Trade and Services

NO. 1343. MERCHANT WHOLESALERS—SUMMARY: 1980 TO 1987

[Data reflect latest revision. Based on Current Business Survey; see Appendix III. See *Historical Statistics, Colonial Times to 1970*, series T 280-371, for related sales data.]

SIC code	KIND OF BUSINESS	1980	1981	1982	1983	1984	1985	1986	1987
SALES (bil. dol.)									
Merchant wholesalers									
50	Durable goods ²	1,124.5	1,224.2	1,155.5	1,203.9	1,360.7	1,375.7	1,382.3	1,520.8
501	Motor vehicles and automotive equipment	483.1	523.4	480.3	522.6	622.0	661.2	681.2	739.3
502	Furniture and home furnishings	83.1	89.6	91.4	103.0	123.4	136.2	148.7	153.2
503	Lumber and other construction material	16.3	17.9	17.7	19.7	22.7	22.4	23.2	24.7
504	Sporting, recreational, photographic, and hobby goods, toys and supplies	36.4	34.9	33.1	41.6	46.7	49.9	54.2	62.4
505	Metals and minerals, except petroleum	(s)	(s)	(s)	(s)	(s)	20.7	20.8	
506	Electrical goods	63.4	70.4	52.5	50.8	61.3	55.3	51.8	60.1
507	Hardware, plumbing and heating equipment	48.9	53.8	55.8	67.5	87.2	88.4	92.0	96.0
508	Machinery, equipment, and supplies	28.1	31.0	29.3	31.7	36.3	39.0	41.1	47.5
509	Miscellaneous durable goods	140.7	157.2	140.9	141.0	167.1	172.6	175.4	192.2
51	Nondurable goods ²	641.4	700.8	675.2	681.2	738.7	724.1	711.1	781.6
511	Paper and paper products	22.6	25.1	25.9	26.2	33.6	35.3	38.2	44.7
512	Drugs, drug proprietaries and druggists' sundries	13.6	15.9	18.6	20.1	22.9	26.4	29.4	33.0
513	Apparel, piece goods and notions	28.5	29.4	(s)	33.4	37.6	40.3	41.6	45.3
514	Groceries and related products	155.4	165.4	174.7	187.6	203.1	207.7	221.9	235.0
515	Farm-product raw materials	125.4	128.9	114.6	126.5	133.2	103.7	94.1	103.3
516	Chemicals and allied products	(s)	(s)	(s)	21.2	22.2	22.6	22.7	23.4
517	Petroleum and petroleum products	171.5	200.3	(s)	(s)	(s)	(s)	124.6	149.0
518	Beer, wine, and distilled beverages	31.9	34.7	35.5	36.8	37.6	39.2	40.8	42.3
519	Miscellaneous nondurable goods	77.5	86.4	88.5	87.8	95.4	94.7	98.2	105.5
INVENTORIES ³ (bil. dol.)									
Merchant wholesalers									
50	Durable goods ²	123.0	130.3	128.2	130.4	142.8	147.1	152.9	155.1
501	Motor vehicles and automotive equipment	78.7	85.4	84.9	84.5	94.6	98.2	100.9	108.0
502	Furniture and home furnishings	12.4	12.8	14.3	13.6	15.7	16.8	18.8	21.5
503	Lumber and other construction material	2.5	2.5	2.5	2.6	3.0	3.2	3.3	4.0
504	Sporting, recreational, photographic, and hobby goods, toys and supplies	(s)	(s)	(s)	4.2	4.6	4.9	5.3	6.2
505	Metals and minerals, except petroleum	(s)	(s)	(s)	(s)	(s)	(s)	4.0	4.1
506	Electrical goods	10.6	12.5	11.5	9.6	9.4	7.9	7.2	7.5
507	Hardware, plumbing and heating equipment	7.6	8.9	9.0	9.5	12.7	12.5	13.4	13.8
508	Machinery, equipment, and supplies	5.3	5.5	5.2	5.5	6.3	6.4	6.8	6.9
509	Miscellaneous durable goods	29.3	32.3	31.7	31.7	33.8	34.8	34.8	36.2
51	Nondurable goods ²	44.3	44.9	43.3	46.0	48.1	50.9	52.0	57.1
511	Paper and paper products	2.0	2.3	2.2	2.7	3.0	3.3	3.6	3.8
512	Drugs, drug proprietaries and druggists' sundries	(s)	(s)	(s)	(s)	(s)	(s)	4.2	5.1
513	Apparel, piece goods and notions	(s)	(s)	(s)	5.7	6.3	6.5	7.3	8.1
514	Groceries and related products	7.8	7.5	8.2	8.9	9.7	10.9	12.2	13.0
515	Farm-product raw materials	7.6	6.1	6.4	7.6	7.3	7.9	6.2	6.8
516	Chemicals and allied products	(s)	(s)	(s)	(s)	(s)	(s)	2.2	2.6
517	Petroleum and petroleum products	(s)	(s)	(s)	(s)	(s)	(s)	3.9	3.4
518	Beer, wine, and distilled beverages	3.2	3.5	3.6	3.4	3.7	4.0	4.1	4.3
519	Miscellaneous nondurable goods	7.2	7.8	7.6	7.8	8.6	8.1	8.5	9.9
SALES/INVENTORY RATIO ³									
Merchant wholesalers									
50	Durable goods ²	9.14	9.40	9.01	9.23	9.54	9.35	9.11	9.21
501	Motor vehicles and automotive equipment	6.14	6.13	5.68	6.18	6.58	6.77	6.75	6.85
502	Furniture and home furnishings	6.73	6.86	6.37	7.57	7.86	8.11	7.87	7.09
503	Lumber and other construction material	6.51	7.06	7.15	7.57	7.57	7.00	7.03	6.18
505	Metals and minerals, except petroleum	(s)	(s)	(s)	9.90	10.15	10.18	10.23	10.06
506	Electrical goods	5.97	5.66	4.57	5.30	6.52	7.00	7.17	8.01
507	Hardware, plumbing and heating equipment	6.40	6.02	6.18	7.11	6.87	7.15	8.87	7.06
508	Machinery, equipment, and supplies	5.53	5.93	5.58	5.76	5.76	6.09	6.04	6.88
509	Miscellaneous durable goods	4.81	4.87	4.45	4.45	4.94	4.98	5.04	5.31
51	Nondurable goods ²	9.85	11.19	9.77	10.45	10.30	10.73	10.46	10.43
511	Paper and paper products	14.49	15.61	15.59	14.81	15.36	14.23	13.88	13.69
514	Groceries and related products	11.18	10.92	11.60	10.44	11.20	10.70	10.61	11.76
515	Farm-product raw materials	19.81	21.15	21.41	21.08	20.94	19.05	18.19	18.08
518	Beer, wine, and distilled beverages	16.57	20.88	17.85	16.64	18.29	13.19	15.18	14.97
519	Miscellaneous nondurable goods	8.89	9.99	10.18	10.82	10.16	9.80	9.80	9.84

^S Data do not meet publication standards.

¹ Standard Industrial Classification; see text, section 13.

² Includes kinds of businesses, not shown separately.

³ End of year inventories; seasonally adjusted.

Source: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Wholesale Trade Sales and Inventories*, December 1980 Through December 1987, (BR-13-875) and earlier reports, and unpublished data.

Wholesale Trade—Service Industries

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No. 1344. WHOLESALE TRADE—SUMMARY, BY STATE: 1982

DIVISION AND STATE	Establishments	Sales (bil. dol.)	Paid employees ¹ (1,000)	MERCHANT WHOLESALERS		DIVISION AND STATE	Establishments	Sales (bil. dol.)	Paid employees ¹ (1,000)	MERCHANT WHOLESALERS	
				Establishments	Sales (bil. dol.)					Establishments	Sales (bil. dol.)
U.S.	415,829	1,997.9	4,985	337,943	1,159.3	So. Atl.—Con.					
N. Eng.:						WV.....	2,380	6.1	26	2,016	4.1
ME.....	1,654	4.2	18	1,465	3.1	NC.....	10,234	39.6	116	8,219	18.9
NH.....	1,487	4.1	16	1,220	2.8	SC.....	4,539	12.7	46	3,884	7.8
VT.....	800	1.9	9	720	1.6	GA.....	11,322	56.1	140	8,651	22.2
MA.....	9,709	49.8	132	7,637	26.3	FL.....	19,537	65.6	212	16,287	39.1
RI.....	1,549	5.0	18	1,934	3.2	E. So. Cent.:					
CT.....	5,329	32.7	69	4,241	19.8	KY.....	5,278	19.2	60	4,338	11.0
Mid. Atl.:						TN.....	7,653	37.8	102	6,329	19.4
NY.....	39,106	261.2	430	32,622	176.3	AL.....	5,913	19.8	68	4,948	12.2
NJ.....	14,739	89.4	211	11,789	46.2	MS.....	3,633	10.8	38	3,189	8.5
PA.....	17,873	78.4	221	14,206	38.9	W. So. Cent.:					
E. No. Cent.:						AR.....	3,769	10.7	39	3,919	7.3
OH.....	16,965	79.6	221	12,987	37.5	LA.....	7,678	36.1	98	6,935	24.9
IN.....	8,953	31.5	99	7,459	19.1	OK.....	6,167	28.1	71	5,176	18.5
IL.....	21,722	131.1	287	16,975	65.5	TX.....	31,978	205.0	417	25,670	122.7
MI.....	12,999	59.8	146	10,159	27.6	Mt.:					
WI.....	8,159	27.4	91	6,832	16.6	MT.....	1,809	4.9	16	1,588	3.7
W. No. Cent.:						ID.....	2,026	5.1	22	1,773	3.7
MN.....	9,020	47.4	104	7,334	30.6	WY.....	1,091	3.3	10	905	2.8
IA.....	7,393	25.8	69	6,507	19.2	CO.....	6,357	26.9	77	4,940	15.2
MO.....	10,149	49.4	122	8,202	27.5	NM.....	2,123	5.1	21	1,821	4.1
ND.....	2,109	6.0	19	1,880	4.7	AZ.....	4,555	13.9	52	3,721	8.3
SD.....	1,803	4.9	16	1,635	3.0	UT.....	2,585	8.7	31	2,085	5.3
NE.....	4,073	17.4	42	3,585	10.1	NV.....	1,233	3.9	14	1,073	2.6
KS.....	5,607	24.5	58	4,605	15.5	Pac.:					
So. Atl.:						WA.....	7,889	31.3	90	6,180	18.5
DE.....	819	7.3	14	669	2.1	OR.....	5,180	26.9	58	4,221	18.9
MD.....	5,507	25.8	77	4,333	13.3	CA.....	43,278	217.7	548	34,832	128.6
DC.....	495	2.6	9	394	1.5	AK.....	708	2.7	7	552	1.6
VA.....	6,960	28.7	91	5,687	14.8	HI.....	1,737	4.1	17	1,434	2.5

¹ For the pay period including March 12.

Source: U.S. Bureau of the Census, 1982 Census of Wholesale Trade, Geographic Area Series, WC82-A-1 to 51.

No. 1345. SELECTED SERVICE INDUSTRIES—SUMMARY: 1977 AND 1982

[For establishments with paid employees]

ITEM	Unit	FIRMS SUBJECT TO FEDERAL INCOME TAX		Firms exempt ² 1982	
		1982			
		Original	Revised ¹		
Firms.....	1,000.....	654	1,154	740	
Total establishments.....	1,000.....	725	1,262	827	
Single unit.....	1,000.....	626	1,111	708	
Multifunit.....	1,000.....	99	151	119	
Receipts ³	Bil. dol.....	164.2	427.0	310.7	
Average receipts ³ per establishment.....	\$1,000.....	226.5	338.4	375.7	
Of multifunit establishments.....	Bil. dol.....	69.9	163.9	140.1	
Percent of total ³	Percent.....	42.6	38.4	45.1	
Payroll, entire year	Bil. dol.....	56.1	158.6	107.9	
Paid employees ⁴	1,000.....	6,337	11,106	8,060	

¹ Because of the differences in scope between 1977 and 1982, the 1982 data have been recomputed to be comparable to 1977 Standard Industrial Classification codes 702, 704, 80 (except 8072); 823, 824, 829, 83, 892, 893, and 899 excluded.² No similarly published data in 1977. ³ Revenue for tax-exempt activity. ⁴ For workweek including March 12.Source: U.S. Bureau of the Census, *Census of Service Industries*, 1977, vol. 1, and 1982, SC 82-I-1.

Domestic Trade and Services

NO. 1346. SERVICE INDUSTRIES—SUMMARY OF ESTABLISHMENTS BY TAX STATUS: 1977 AND 1982

[See *Historical Statistics, Colonial Times to 1970*, series T 391-443 for similar but not comparable data]

KIND OF BUSINESS	ESTABLISHMENTS ¹ (1,000)		RECEIPTS OR EXPENSES ¹ (mil. dol.)		ANNUAL PAYROLL (mil. dol.)		PAID EMPLOYEES ² (1,000)	
	1977	1982	1977	1982	1977	1982	1977	1982
Firms subject to Federal Income tax	2,755.1	(NA)	248,813	(NA)	81,183	156,625	6,616.9	11,106.1
Hotels, motels, and other lodging places	79.7	69.1	18,755	34,057	5,190	9,289	918.7	1,102.1
Hotels, motor hotels, and motels	51.9	47.6	17,719	32,675	5,027	9,067	894.1	1,076.2
Trailing parks and camps	18.9	15.3	734	1,044	103	151	11.9	15.2
Rooming, boarding, and membership lodgings	(X)	8.3	(X)	338	60	71	12.7	10.8
Personal services ³	512.1	(NA)	18,433	(NA)	5,478	7,956	910.4	970.5
Laundry, cleaning, and garment services	75.4	66.2	6,829	9,913	2,288	3,225	361.0	354.5
Photographic studios, portrait	37.1	48.5	1,185	2,027	215	357	29.8	44.0
Beauty and barber shops	264.7	274.8	5,265	7,455	1,818	2,414	316.7	314.2
Shoe repair, shoe shine, etc.	9.6	7.8	239	281	40	55	7.2	7.0
Funeral service, crematories	19.6	18.7	2,827	3,936	639	927	71.8	74.2
Business services	458.2	(NA)	54,500	(NA)	20,852	42,416	2,297.4	3,151.7
Advertising	32.9	41.7	4,983	9,288	1,921	3,392	118.8	145.9
Services to dwellings, other buildings	67.3	91.9	4,597	8,197	2,256	3,899	426.3	540.0
Computer, data processing services	16.1	40.9	7,576	22,217	2,833	7,843	203.9	363.5
Computer prog., other software services	(NA)	(NA)	(NA)	(NA)	957	3,336	51.3	126.6
Data processing services	(NA)	(NA)	(NA)	(NA)	1,614	3,448	135.7	183.4
Computer related services, n.e.c. ⁴	(NA)	(NA)	(NA)	(NA)	282	1,060	16.8	43.5
Management, consulting, public relations	143.8	267.9	8,343	20,106	2,839	6,528	208.8	365.3
Equipment rental, leasing services	29.3	49.2	4,970	11,361	1,060	2,305	84.6	133.4
Other business services ³	168.9	(NA)	23,898	(NA)	9,918	18,447	1,252.5	1,625.4
Credit reporting, collection agencies	(NA)	(NA)	(NA)	(NA)	539	909	64.2	60.5
Direct mail advertising services	(NA)	(NA)	(NA)	(NA)	276	580	31.5	43.7
Commercial photography, art, graphics	(NA)	(NA)	(NA)	(NA)	588	1,024	460	55.6
Personnel supply services	(NA)	(NA)	(NA)	(NA)	2,881	5,632	431.7	608.8
Research and development labs	(NA)	(NA)	(NA)	(NA)	843	1,579	46.5	64.1
Testing labs and facilities	(NA)	(NA)	(NA)	(NA)	308	643	25.3	35.0
Detective agencies, protective services	(NA)	(NA)	(NA)	(NA)	1,598	3,000	279.9	340.5
Automotive repair, services, garages	200.2	227.6	21,576	33,782	4,455	7,057	483.2	553.2
Automotive rental and leasing, without drivers	12.4	12.5	6,407	8,750	834	1,380	75.5	94.2
Automobile parking	8.9	8.8	1,008	1,592	211	323	33.9	34.9
Automotive repair shops	184.2	179.1	12,770	20,414	3,090	4,906	316.3	364.6
General auto repair	87.0	109.5	5,633	8,924	1,173	1,840	128.3	144.1
Top and body repair	38.8	40.8	3,246	5,398	874	1,439	87.9	103.4
Other auto repair	28.4	28.8	3,891	6,092	1,043	1,627	120.0	117.2
Automotive services, exc. repair	24.7	27.2	1,391	2,026	320	449	57.6	59.5
Miscellaneous repair services	162.9	159.3	11,028	16,032	2,992	4,589	278.1	299.7
Electrical, electronic repair shops	52.5	35.9	3,581	4,488	1,001	1,350	95.2	87.4
Reupholstery, furniture repair	24.6	21.3	694	825	5147	192	20.9	19.8
Other repair shops, related services	85.8	102.0	6,726	10,719	1,833	3,017	161.8	192.5
Amusement, rec. serv., incl. motion pictures	176.8	214.4	21,143	35,320	5,272	8,805	660.3	803.8
Motion picture prod., distribution, services	10.7	15.9	5,412	10,354	1,377	2,451	88.4	127.2
Motion picture theaters	11.8	10.0	2,806	3,610	482	587	112.2	103.5
Producers, orchestras, entertainers	67.7	92.9	2,361	4,319	524	971	50.1	56.8
Bowling alleys, billiards, pool establishments	11.3	8.9	1,768	2,308	490	648	108.1	108.9
Commercial sports, other amusement, recreation services	75.2	86.7	6,987	14,730	2,419	4,168	301.5	407.4
Health services, except hospitals ³	443.1	542.6	54,386	101,220	20,952	42,632	1,821.0	2,433.1
Offices of physicians	189.1	234.8	28,756	53,241	11,854	24,576	624.0	822.0
Offices of dentists	99.3	114.4	10,007	16,814	3,044	5,788	284.4	402.5
Medical and dental laboratories	15.7	17.2	2,459	4,245	960	1,620	87.8	103.7
Legal services	167.8	203.0	18,696	36,930	5,217	12,554	392.0	569.4
Selected educational services ³	81.8	107.6	1,838	3,228	493	622	61.2	68.5
Correspondence and vocational schools	(NA)	(NA)	(NA)	(NA)	302	508	34.1	38.0
Schools and educational services, n.e.c. ⁴	(NA)	(NA)	(NA)	(NA)	186	309	26.2	30.0
Engineering, architectural, surveying services	75.6	96.9	14,737	35,557	6,292	14,717	373.2	581.5
Accounting, auditing, bookkeeping services	126.1	179.8	7,990	15,950	2,917	5,933	230.9	330.2
Social and other services	270.7	(NA)	5,732	(NA)	1,073	1,884	191.4	242.7
Social services	(NA)	(NA)	(NA)	(NA)	866	1,477	177.4	222.0
Child day care services	(NA)	(NA)	(NA)	(NA)	939	616	87.5	123.1
Firms exempt from Federal Income tax	(X)	147.1	(X)	54,522	(X)	23,142	(X)	2,280.1
Hotels, camps, membership lodges	(X)	4.1	(X)	513	(X)	155	(X)	22.8
Research, testing, consulting services	(X)	1.0	(X)	2,612	(X)	1,251	(X)	53.6
Selected amusement, rec., related services	(X)	10.5	(X)	5,107	(X)	2,105	(X)	213.6
Selected health services ³	6.7	10.0	4,764	10,438	2,516	5,197	330.0	476.2
Nursing and personal care facilities	2.3	3.0	2,216	4,752	1,203	2,597	201.8	283.2
Outpatient care facilities	4.2	4.7	1,805	3,857	918	1,657	85.2	108.9
Legal aid societies, similar legal services	1.1	1.3	259	421	153	252	12.4	14.6
Selected educational services	4.1	4.3	702	1,150	315	487	49.4	52.7
Social services	41.0	52.6	8,285	16,455	4,124	7,521	876.5	903.9
Child day care services	10.6	12.7	829	1,494	495	889	102.4	135.3
Selected membership organizations ³	58.1	61.3	8,489	15,093	3,073	5,196	417.3	492.9
Business associations	11.7	12.1	2,305	4,651	822	1,468	68.8	80.2
Civic, social, and fraternal associations	34.1	35.5	3,606	5,857	1,342	2,078	255.9	295.8
Noncommercial educational, scientific, and research organizations	1.9	1.9	1,437	2,733	595	977	47.8	49.9

NA Not available. X Not applicable. ¹ Data for number of establishments and receipts of firms subject to Federal income tax include establishments without payroll. Receipts refer to establishments subject to Federal income tax. Expenses refer to establishments exempt from Federal income tax. ² For pay period including March 12. ³ Includes other kinds of businesses, not shown separately. ⁴N.e.c. means not elsewhere classified. ⁵Data revised since originally published; revisions not carried to the broader kind-of-business level.

Source: U.S. Bureau of the Census, *Census of Service Industries, 1977*, Geographic Area Series, vol. II; *1982 Census of Service Industries, Geographic Area Series*, series SC82-A-52 and change sheet.

Services—Establishments, Employees, and Payroll

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NO. 1347. SERVICES—ESTABLISHMENTS, EMPLOYEES, AND PAYROLL: 1980 TO 1986

[Excludes government employees, railroad employees, self-employed persons, etc. For statement on methodology, see Appendix III.]

SIC ¹ code	KIND OF BUSINESS	ESTABLISHMENTS (1,000)			EMPLOYEES (1,000)			Pay- roll, 1986 (bil. dol.)
		1980	1985	1986	1980	1985	1986	
(I) Services, total ²		1,278.2	1,711.8	1,811.3	17,186	21,549	22,878	381
70 Hotels and other lodging places ²		41.4	48.0	49.0	1,086	1,270	1,332	14
701 Hotels, motels, and tourist courts		32.1	37.0	37.6	1,034	1,210	1,269	13
72 Personal services ²		152.3	175.2	179.0	953	1,069	1,117	11
721 Laundry, cleaning, and garment services ²		40.2	44.9	45.9	359	372	384	4
7215 Coin-operated laundries and cleaning		9.7	10.4	10.4	36	37	39	2
7216 Dry cleaning plants, except rug		17.4	17.2	16.3	132	139	136	1
723 Beauty shops		65.7	72.1	73.3	285	318	332	3
726 Funeral service and crematories		14.0	14.6	14.4	71	75	77	1
73 Business services ²		161.4	258.4	276.6	2,991	4,272	4,613	81
731 Advertising		10.6	15.6	16.2	140	185	187	6
7311 Advertising agencies		7.4	9.8	9.8	100	127	128	4
732 Credit reporting and collection		5.6	5.9	5.9	65	69	78	1
733 Mailing, reproduction, and stenographic services		14.6	20.3	20.6	136	190	198	4
7333 Commercial photography, art and graphics		7.0	10.2	10.1	53	64	65	2
734 Services to dwellings and other buildings		23.4	33.7	35.6	497	607	637	6
736 Personnel supply services ²		13.7	17.9	19.0	569	885	971	11
7361 Employment agencies		8.0	10.0	10.5	109	158	192	3
7362 Temporary help supply services		5.2	7.5	8.1	416	669	738	7
737 Computer and data processing services ²		13.6	26.1	27.1	303	515	564	16
7372 Computer programming and other software services		4.4	10.9	11.1	83	193	223	8
7374 Data processing services		6.2	7.6	7.3	187	253	256	6
739 Miscellaneous business services ²		75.5	120.4	128.9	1,270	1,766	1,875	35
7391 Research and development laboratories		2.3	3.4	3.5	99	141	148	5
7392 Management and public relations		27.2	43.9	45.4	325	512	562	13
7393 Detective agencies and protective services		6.8	10.1	10.4	338	411	431	5
7394 Equipment rental and leasing services		12.1	23.0	26.1	115	216	222	4
7395 Photofinishing laboratories		2.7	5.0	5.3	75	75	76	1
75 Automotive repair, services, and garages ²		99.5	127.6	133.6	560	676	727	11
751 Automotive rental, without drivers		8.7	9.7	9.8	101	120	138	2
7512 Passenger car rental and leasing		4.2	5.0	5.2	60	69	79	1
7513 Truck rental and leasing		4.1	4.2	3.9	48	49	56	1
753 Automotive repair shops		75.1	96.4	99.5	359	420	435	7
7531 Top and body repair shops		19.7	25.5	26.2	95	119	125	2
7538 General automotive repair shops		34.8	44.9	46.5	150	170	176	3
754 Automotive services, except repair		7.9	11.1	12.2	62	83	92	1
76 Miscellaneous repair services		48.0	56.7	58.4	319	327	339	6
7622 Radio and television repair		7.2	6.3	5.8	37	31	31	1
78 Motion pictures ²		14.9	18.2	18.5	208	229	252	5
781 Motion picture production, distribution, and services		4.1	8.5	9.2	83	117	140	3
783 Motion picture theaters		9.5	8.6	8.2	109	96	97	1
79 Amusement and recreation services ²		45.5	60.2	61.5	706	768	787	10
792 Theatrical producers, bands, orchestras, entertainers		5.9	7.8	7.6	96	97	103	2
7933 Bowling alleys		6.2	6.3	6.1	110	100	97	1
794 Commercial sports		2.1	2.5	2.5	60	68	65	1
7997 Membership sports and recreation clubs		9.5	13.2	13.1	172	215	220	3
80 Health services ²		310.8	390.2	401.4	5,258	6,337	6,614	126
801 Offices of physicians		147.2	180.1	182.1	742	924	980	35
802 Offices of dentists		85.7	98.4	99.9	351	445	465	8
8041 Offices of chiropractors		8.9	15.3	16.8	22	42	48	1
8042 Offices of optometrists		12.5	14.6	14.6	38	50	52	1
805 Nursing and personal care facilities		12.8	16.0	16.5	1,002	1,206	1,270	12
806 Hospitals		5.3	5.8	5.7	2,673	2,944	2,974	56
807 Medical and dental laboratories		10.8	13.2	13.9	98	112	124	2
808 Outpatient care facilities		8.6	12.5	14.0	165	251	290	6
81 Legal services		97.3	125.7	128.7	503	665	746	22
82 Educational services ²		23.3	30.1	31.0	1,241	1,517	1,582	22
821 Elementary and secondary schools		11.3	13.3	13.4	303	374	387	5
822 Colleges and universities		2.4	2.8	2.8	820	985	997	15
83 Social services ²		60.6	88.1	92.8	1,023	1,291	1,388	13
836 Residential care		9.9	14.9	15.8	214	280	300	3
86 Membership organizations ²		130.7	176.0	207.9	1,215	1,552	1,696	17
861 Business associations		11.1	11.7	11.6	79	87	90	2
863 Labor organizations		20.8	20.6	20.5	172	170	169	2
864 Civic and social associations		30.5	35.6	37.0	279	311	327	3
866 Religious organizations		56.0	93.0	122.3	573	851	966	7
891 Engineering and architectural services		37.5	53.2	55.9	524	667	706	21
893 Accounting, auditing and bookkeeping		40.8	58.1	60.8	302	400	432	9

¹ Standard Industrial Classification; see text, section 13. ² Includes kinds of business not shown separately.

Source: U.S. Bureau of the Census, *County Business Patterns*, annual.

Domestic Trade and Services

No. 1348. SERVICE INDUSTRIES—ANNUAL RECEIPTS OF TAXABLE FIRMS: 1980 TO 1987

[In millions of dollars. Estimated]

SIC ¹ code	KIND OF BUSINESS	1980	1983	1984	1985	1986	1987
70	Hotels, camps, and other lodging places.....	(NA)	(NA)	(NA)	44,414	45,952	51,087
701	Hotels, motels, and tourist courts.....	26,852	35,870	38,859	41,742	43,317	48,238
72	Personal services ²	25,132	32,278	34,036	36,978	39,407	42,363
721	Laundry, cleaning, and garment services.....	9,213	10,621	11,895	12,641	13,062	13,895
723	Beauty shops.....	5,798	7,731	8,048	8,591	9,043	9,780
726	Funeral service and crematories.....	3,491	4,267	4,726	5,278	5,515	5,810
73	Business services ²	(NA)	(NA)	(NA)	181,988	198,743	216,306
731	Advertising.....	(NA)	11,979	13,645	16,394	17,343	18,304
7311	Advertising agencies.....	(NA)	9,179	10,358	12,432	13,158	13,461
733	Mailing, reproduction, and stenographic services.....	(NA)	(NA)	(NA)	10,740	11,697	13,217
7333	Commercial photography, art, and graphics.....	(NA)	(NA)	(NA)	4,551	4,699	5,318
734	Services to dwellings and other buildings.....	(NA)	9,970	11,100	12,545	13,828	14,763
7349	Cleaning and maintenance services to dwellings, and other buildings, n.e.c. ³	(NA)	(NA)	(NA)	10,036	11,242	11,806
736	Personnel supply services ²	(NA)	10,652	14,058	16,006	18,019	21,717
7361	Employment agencies.....	(NA)	(NA)	(NA)	4,440	4,818	5,385
7362	Temporary help supply services.....	(NA)	(NA)	(NA)	9,199	10,447	13,443
737	Computer and data processing services.....	(NA)	24,673	28,613	32,093	35,796	39,274
7372	Computer programming and other software services.....	(NA)	9,446	11,411	12,590	14,389	16,832
7374	Data processing services.....	(NA)	11,034	12,409	13,321	14,425	14,959
7379	Computer related services, n.e.c. ³	(NA)	4,191	4,793	6,182	6,952	7,484
7391	Research and development laboratories ⁴	(NA)	(NA)	(NA)	7,698	8,866	9,242
7392	Management, consulting, and public relations services ⁴	(NA)	(NA)	(NA)	33,515	36,785	38,479
7393	Detective agencies and protective services.....	(NA)	6,140	6,932	7,985	8,894	10,138
7394	Equipment rental and leasing services.....	(NA)	(NA)	(NA)	16,451	17,071	17,899
75	Automotive repair, services, and garages ²	30,547	37,304	43,615	51,543	53,563	57,837
751	Automotive rental and leasing ²	8,759	10,754	12,568	14,510	15,386	16,550
7512	Passenger car rental and leasing.....	4,681	6,124	7,365	8,743	9,319	9,911
7513	Truck rental and leasing.....	3,988	4,492	4,955	5,329	5,571	6,148
753	Automotive repair shops.....	18,077	22,697	25,877	30,883	32,024	34,749
76	Miscellaneous repair services.....	15,424	15,978	17,230	19,889	20,180	21,598
78	Motion pictures.....	12,509	14,630	15,797	17,002	18,205	20,753
7812	Motion picture production, distribution, and allied services.....	(NA)	(NA)	(NA)	12,697	13,566	15,745
79	Amusement and recreation services ²	(NA)	(NA)	(NA)	25,418	27,327	29,407
792	Theatrical producers, bands, orchestras, and entertainers ⁴	(NA)	(NA)	(NA)	4,947	5,910	5,989
794	Commercial sports.....	(NA)	(NA)	(NA)	4,963	5,029	6,040
80	Health services ²	(NA)	(NA)	(NA)	151,225	167,473	189,520
801	Offices of physicians.....	38,754	56,985	62,599	68,499	75,136	87,415
802	Offices of dentists.....	12,639	17,255	18,829	20,187	21,420	23,418
804	Offices of other health practitioners.....	(NA)	(NA)	(NA)	7,551	8,315	9,630
805	Nursing and personal care facilities ⁴	(NA)	(NA)	(NA)	17,632	19,225	20,258
806	Hospitals ⁴	(NA)	(NA)	(NA)	16,796	21,597	23,572
808	Outpatient care facilities ⁴	(NA)	(NA)	(NA)	8,967	11,104	13,422
81	Legal services ^{4,5}	(NA)	(NA)	(NA)	51,677	57,143	64,510
891	Engineering and architectural services.....	(NA)	36,240	39,067	43,617	45,397	50,468
893	Accounting, auditing, and bookkeeping.....	(NA)	17,113	18,984	22,308	24,062	27,949
4722	Arrangement of passenger transportation.....	(NA)	4,784	5,765	6,965	6,424	7,030
653	Real estate agents and managers ⁵	(NA)	21,773	25,408	31,257	34,859	38,145

NA Not available. ¹ Standard Industrial Classification; see text, section 13. ² Includes other kinds of businesses, not shown separately. ³ N.e.c. means not elsewhere classified. ⁴ For data on tax-exempt organizations, see table 1349.

⁵ Excludes nonemployers.

No. 1349. SELECTED SERVICE INDUSTRIES—ANNUAL REVENUES OF TAX-EXEMPT FIRMS: 1985 AND 1987

[In millions of dollars. Estimated]

SIC ¹ code	KIND OF BUSINESS	1985	1987	SIC ¹ code	KIND OF BUSINESS	1985	1987
7391,2,7	Selected business services ²	4,657	6,525	81	Legal services.....	374	520
792,7997, 7999	Selected amusement services ³	5,583	6,832	833	Job training and vocational rehabilitation services.....	3,399	3,980
805,6,8,9	Selected health services ⁴	141,580	175,909	835	Child day care services.....	2,971	3,724
805	Nursing and personal care facilities.....	6,606	7,946	836	Residential care.....	5,737	7,101
806	Hospitals.....	125,218	156,163	892	Noncommercial educational, scientific, and research organizations.....	4,440	5,562
808	Outpatient care facilities.....	6,645	7,874				

¹ Standard Industrial Classification; see text, section 13. ² Covers research and development laboratories (SIC 7391); management, consulting, and public relations services (SIC 7392); and commercial testing laboratories (SIC 7397). ³ Covers theatrical producers, bands, orchestras, and entertainers (SIC 792); membership sports and recreation clubs (SIC 7997); and amusement and recreation services, not elsewhere classified (SIC 7999).

⁴ Includes health and allied services, not elsewhere classified (SIC 809).

Source of tables 1348 and 1349: U.S. Bureau of the Census, *Current Business Reports*, series BS, 1987 Service Annual Survey.

Hotel Operations—Lodging Industry—Data Processing

767

No. 1350. HOTEL AND MOTOR HOTEL OPERATIONS—OCCUPANCY RATIO, SALES INDEXES, AND ROOM RATE INDEX: 1970 TO 1987

[Annual averages of monthly figures. Based on monthly reports from lodging establishments (approximately 1,400 in 1985). Prior to 1980, economy operations were excluded. See table 1351.]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Occupancy ratio (percent)	55	62	68	72	71	68	67	66	65	66	64	65	66
Sales Indexes (1967=100):													
Total sales	107	132	163	188	210	234	251	256	267	289	294	308	323
Room sales	112	145	185	218	249	283	305	313	329	361	370	390	413
Restaurant sales	100	119	139	156	167	180	191	193	198	209	209	214	219
Room rate index (1967=100)	125	165	194	220	255	295	326	348	361	387	404	419	435

Source: Lavelenthal & Horwath, Philadelphia, PA, *National Trend of Business in the Lodging Industry*, monthly. (Copyright.)

No. 1351. THE LODGING INDUSTRY, BY TYPE OF ESTABLISHMENT—SUMMARY: 1985 TO 1987

[An economy lodging establishment offers clean, standard-sized, fully-furnished modern rooms at usually \$10.00 to \$20.00 per night below the rate of typical full-service motor hotels. Their customers do not need food facilities, banquet rooms or meeting facilities, indoor recreation areas, or entertainment. An all-suite hotel doesn't have rooms, only suites. A suite differs from a hotel room by several characteristics. Generally, there is a separate bedroom, and guest amenities often include "extras" such as a wet bar or microwave, and in some cases a full-kitchen. A resort hotel is a lodging facility providing an environment conducive to leisure and recreation and an ambience of isolation/destination while providing a full range of leisure oriented amenities. Based on Annual Surveys of Lodging Establishments. Covers approximately 800 full-service, 300 economy, 60 all suite, and 180 resort establishments in 1986. All figures except percents are medians. For definition of median, see Guide to Tabular Presentation.]

ITEM	FULL-SERVICE		ECONOMY		ALL-SUITE		REORT	
	1986	1987	1986	1987	1985	1986	1986	1987
Room occupancy rate	64.9	65.3	66.3	65.3	69.3	70.3	66.8	63.5
Average room rate (dol.)	56.29	57.84	29.04	30.69	72.44	63.33	66.14	83.01
Sales per available room (dol.)	21,738	22,685	7,719	7,700	22,045	17,891	25,480	16,947
Payroll and related expenses per available room (dol.)	6,790	(NA)	1,598	1,274	6,378	6,713	8,244	(NA)
Ratio of net income before income tax to sales	-3.6	-4.0	20.8	13.6	(NA)	(NA)	.1	1.9
Employees 1 per 100 available rooms	41.7	(NA)	(NA)	(NA)	38.9	41.8	61.5	79.6
Sales per employee 1 (dol.)	48,582	(NA)	(NA)	(NA)	43,134	48,513	44,106	(NA)
Composition of market—(percent):								
Business travelers/government officials	39.2	40.3	58.9	43.4	57.8	59.9	8.9	9.2
Tourists	34.6	32.8	31.5	42.8	26.7	22.8	66.7	58.7
Conference participants	15.2	20.0	4.9	4.1	12.8	11.2	21.9	29.4
Percent advanced reservations	68.8	71.3	44.2	36.1	80.8	81.9	82.2	85.9

NA Not available. ¹Full-time equivalent employees.

Source: Lavelenthal & Horwath, Philadelphia, PA, *U.S. Lodging Industry*, annual; *U.S. All-Suite Lodging Industry*, annual; *U.S. Economy/Limited-Service Lodging Industry*, annual; and *U.S. Resort Lodging Industry*, annual.

No. 1352. COMPUTER AND DATA PROCESSING SERVICES—RECEIPTS, BY SOURCE: 1977 AND 1982

[In millions of dollars. For establishments with payroll]

RECEIPT SOURCE	TOTAL		COMPUTER PROGRAMMING ¹		DATA PROCESSING		COMPUTER RELATED SERVICES (n.e.c.) ³	
	1977	1982	1977	1982	1977	1982	Excluding facilities management ²	
							1977	1982
Total	7,476	21,810	1,992	8,186	4,474	10,099	4,058	9,406
Programming, systems analysis and design ¹								
Prepackaged	1,984	{ 1,608 4,582	1,771	{ 1,515 4,175	192	{ 78 377	185	{ 70 352
Custom								
Research and development ⁴	35	69	24	53	10	12	10	11
Data processing and preparation	3,738	8,631	72	249	3,652	8,371	3,642	8,357
Facilities management	445	698	25	34	416	657	18	43
Rental or leasing ⁵ of data processing equipment	452	1,083	13	131	21	90	21	85
Rental, sales, licensing of integrated systems	568	{ 1,708 713	30	{ 167 156	55	{ 111 20	54	{ 181 98
Consulting and planning ⁶	255	583	57	205	128	196	127	190
Maintenance of equipment								
Other sources								

NA Not available. ¹And related software. ²Operation of customers' in-house operation. ³Not elsewhere classified.

⁴Of hardware. ⁵Except finance leasing. ⁶Except programming services.

Source: U.S. Bureau of the Census, *Census of Service Industries: 1977, Subject Series, SC-77-S-9*, and *1982 Census of Service Industries, Miscellaneous Subjects, SC 82-5*.

Domestic Trade and Services

No. 1353. SERVICE INDUSTRIES—SUMMARY OF ESTABLISHMENTS WITH PAYROLL, BY STATE: 1982

DIVISION AND STATE	FIRMS SUBJECT TO FEDERAL INCOME TAX										TAX-EXEMPT FIRMS	
	Establishments				Receipts (mil. dol.)				Annual payroll (mil. dol.)	Paid employees ³ (1,000)	Establishments	Revenue (mil. dol.)
	Total ¹ (1,000)	Business services	Personal services	Auto-motive repair ²	Total ¹	Business services	Personal services	Auto-motive repair ²				
U.S.	1,281.7	215,125	187,749	115,461	426,982	106,866	22,980	30,695	156,625	11,108.1	147,061	61,488
N.E.:												
ME	5.9	614	661	537	1,204	141	71	120	420	37.9	1,133	268
NH	5.5	853	695	498	1,246	234	86	116	457	38.2	990	210
VT	3.2	376	391	261	662	73	38	43	224	23.2	772	144
MA	33.9	6,092	4,861	3,104	13,317	4,071	618	882	5,363	353.3	5,022	2,584
RI	5.4	851	857	544	1,351	310	85	119	514	41.3	811	324
CT	19.6	4,065	2,872	1,577	6,408	1,959	379	437	2,892	170.9	2,495	927
M.A.:												
NY	102.9	21,477	13,073	8,214	43,804	14,745	1,948	2,210	15,777	982.6	11,693	8,277
N.J.	45.5	8,859	6,254	4,052	16,349	4,618	802	1,058	6,020	401.4	3,544	1,364
PA	55.0	8,255	8,152	5,996	19,083	4,581	1,038	1,390	7,045	485.9	9,424	3,287
E.N.C.:												
OH	52.1	7,822	8,066	5,039	15,515	3,680	1,096	1,331	6,091	450.8	7,129	2,557
IN	24.4	3,493	3,768	2,577	6,252	1,170	499	822	2,313	187.6	3,622	1,036
IL	57.6	11,453	7,746	5,030	21,396	6,130	1,206	1,501	8,170	547.7	6,934	3,984
MI	43.7	6,390	5,802	3,887	13,448	3,155	839	1,070	5,312	362.8	5,076	1,888
WI	22.8	3,271	3,845	1,925	5,956	1,077	433	472	2,450	190.3	3,222	1,082
W.N.C.:												
MN	20.0	3,578	2,895	1,706	8,472	1,502	426	462	2,535	198.0	3,575	1,747
IA	14.6	1,671	2,544	1,526	3,364	840	250	299	1,209	105.7	2,685	727
MO	25.6	3,974	4,015	2,659	8,160	2,124	505	730	3,078	225.3	3,072	1,217
ND	3.1	382	598	292	811	106	64	75	310	23.4	719	180
SD	3.5	394	540	357	674	75	53	61	234	21.4	746	154
NE	8.5	1,174	1,429	844	2,229	496	156	210	803	66.3	1,403	409
KS	12.7	1,786	1,833	1,312	3,064	592	235	267	1,140	92.1	2,171	493
S.A.:												
DE	3.2	569	474	299	850	171	50	80	330	27.4	485	153
MD	22.6	4,255	2,989	1,798	8,583	3,107	447	538	3,404	228.1	2,580	1,411
DC	6.3	1,571	505	403	4,218	1,156	99	123	1,597	88.4	2,008	3,193
VA	27.6	5,023	4,172	2,496	9,177	2,882	553	616	3,675	255.3	3,145	1,552
WV	7.4	723	1,327	630	1,759	201	146	109	633	50.2	1,241	264
NC	27.1	3,739	4,316	2,746	6,268	2,105	538	586	2,371	198.4	3,076	630
SC	13.9	1,817	2,080	1,357	3,301	490	243	276	1,255	105.1	1,383	291
GA	28.2	4,836	3,894	2,825	8,795	2,332	495	766	3,231	242.8	2,659	842
FL	68.7	12,025	8,753	5,757	21,542	4,539	1,095	1,736	8,082	600.7	5,468	1,957
E.S.C.:												
KY	14.7	1,881	2,410	1,355	3,678	579	300	288	1,336	111.9	1,882	527
TN	21.4	3,063	3,311	2,098	6,344	1,504	446	508	2,346	177.3	2,483	719
AL	15.9	2,127	2,694	1,891	4,339	777	291	406	1,608	125.6	1,681	422
MS	9.7	1,082	1,460	984	2,172	333	151	187	782	68.2	1,309	266
W.S.C.:												
AR	10.1	1,189	1,536	1,083	2,177	278	181	221	805	68.6	1,339	298
LA	22.1	3,853	2,344	2,035	7,698	2,075	361	467	2,685	202.3	1,726	495
OK	16.7	2,718	1,980	1,483	5,097	1,182	305	367	1,784	132.9	1,785	509
TX	85.7	16,195	10,946	8,481	32,038	8,159	1,754	2,481	11,442	783.0	7,167	2,594
Mt.:												
MT	5.0	584	604	483	1,006	112	58	95	345	31.6	977	163
ID	5.1	591	682	484	1,088	169	70	97	396	33.5	626	303
WY	3.5	462	369	302	894	178	39	69	280	22.9	538	94
CO	21.7	4,077	2,415	1,944	7,225	1,680	349	548	2,595	191.1	2,239	920
NM	7.4	1,058	988	721	2,408	943	102	157	883	81.2	954	255
AZ	17.3	3,175	2,132	1,507	5,070	1,113	292	395	1,881	147.8	1,591	538
UT	7.9	1,290	743	744	2,173	416	104	224	770	59.8	647	191
NV	6.2	1,052	671	492	6,080	520	149	162	2,112	152.3	453	89
Pac.:												
WA	25.4	3,914	3,321	2,148	7,359	1,673	405	547	2,794	198.1	3,349	1,108
OR	16.3	2,398	1,857	1,375	3,899	686	223	328	1,430	112.3	2,053	551
CA	170.4	31,489	16,868	14,991	67,083	18,387	2,761	4,536	24,569	1,530.9	14,561	7,453
AK	2.6	523	237	184	1,155	248	46	67	434	21.2	558	196
HI	6.1	1,024	663	567	2,660	314	101	249	904	71.1	860	433

¹ Includes other kinds of businesses not shown separately. ² Includes services and garages.³ For the pay period including March 12.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Geographic Area Series, SC82-A-1 to 52.